

AD-A186 780

COAST OF CALIFORNIA STORM AND TIDAL WAVES STUDY  
SOUTHERN CALIFORNIA COAST..(U) ARMY ENGINEER DISTRICT  
LOS ANGELES CA COASTAL RESOURCES BRANC.. FEB 86  
CCSTWS-86-2

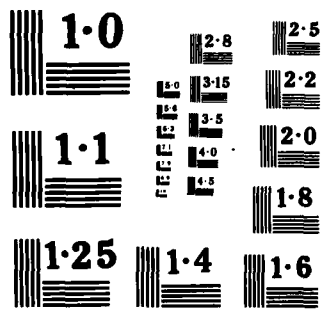
1/2

UNCLASSIFIED

F/G 8/6

NL







US Army Corps  
of Engineers

Los Angeles District

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

12

# SOUTHERN CALIFORNIA COASTAL PHOTOGRAPHY AND BEACH PROFILE INDEX

AD-A166 780

WTF FIVE COPY



DTIC  
ELECTE  
APR 23 1980

This document has been approved  
for public release and sale; its  
distribution is unlimited.

CCOTWS 86-2  
February 1986

26 4 22 206

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER CCSTWS 86-2	2. GOVT ACCESSION NO. <b>AD-A116 780</b>	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle)  SOUTHERN CALIFORNIA COASTAL PHOTOGRAPHY AND BEACH PROFILE INDEX		5. TYPE OF REPORT & PERIOD COVERED
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s)		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS US ARMY CORPS OF ENGINEERS LA DISTRICT p.O. BOX 2711     ATTN: SPLPD-C / LA., CA 90053- 2325		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS  SAME AS ABOVE		12. REPORT DATE FEBRUARY 1986
		13. NUMBER OF PAGES 101
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		15. SECURITY CLASS. (of this report) UNCLASSIFIED
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)  APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES  COPIES OBTAINABLE FROM THE NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD, VA. 22151		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) COASTAL PROCESSES COAST OF CALIFORNIA STORM AND TIDAL WAVES STUDY BEACH PROFILE, AERIAL PHOTOGRAPHY		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) THIS REPORT IS AN INVENTORY OF THE AERIAL PHOTOGRAPHY, GROUND PHOTOS AND BEACH PROFILE DATA ALONG THE SOUTHERN CALIFORNIA COAST FROM CAPE SAN MARTIN TO THE MEXICAN BORDER WHICH IS AVAILABLE AT THE US ARMY CORPS OF ENGINEERS, LOS ANGELES DISTRICT (LAD; ALSO INCLUDES OTHER FEDERAL, STATE AND LOCAL GOVERNMENT AGENCIES) THESE DATA WERE COMPILED TO DOCUMENT DIMENSIONS AND BEACH CHARACTERISTICS, HISTORIC SHORELINE CHANGES, STORM AFFECTS ON THE BEACH, STRUCTURE EFFECTS ON THE BEACH AND SIGNIFICANT BEACH OR INLET CHANGES. THE PHOTOGRAPHS AND OTHER DATA ARE AVAILABLE FOR USE AND INSPECTION BY GOVERNMENT		

SECURITY CLASSIFICATION OF THIS PAGE(When Data Entered)

EDUCATIONAL INSTITUTIONS, COASTAL ENGINEERS AND OTHER COASTAL INTEREST GROUPS.

SECURITY CLASSIFICATION OF THIS PAGE(When Data Entered)

SOUTHERN CALIFORNIA COASTAL PHOTOGRAPHY  
AND BEACH PROFILE INDEX  
Ref. No. CCSTWS 86-2

Coast of California Storm and Tidal Waves Study

U.S. Army Corps of Engineers  
Los Angeles District, Planning Division  
Coastal Resources Branch  
P.O. Box 2711  
Los Angeles, California 90053

FEBRUARY 1986

# CONTENTS

	Page
Purpose of Report.....	1
Historical Photographs (Pre-1972).....	1
Aerial Photography (Post-1972).....	2
Beach Profile Data.....	3
U. S. Coast and Geodetic Survey Historical Bathymetry.....	3
Los Angeles District Contacts.....	4

## TABLES

1. Coastal Mileage Chart by Counties.....	5
2. Historical Vertical Aerial Photographs.....	6-17
3. Historical Ground Photograph Stations.....	18-30
4. Vertical Aerial Photographs (Los Angeles District).....	31-32
5. Vertical Aerial Photographs (Other Agencies).....	33-34

## FIGURES

1-5. Historical Hydrographic Survey Index.....	35-66
(U. S. Coast and Geodetic Survey)	

## PLATES

1. Coastal Mileage Chart (for location of historical aerial and ground photos)
2. Littoral Cell Location Map (for beach profiles)
- 3-5. Index to Historical Aerial Photographs (1920-1959)
- 6-35. Index to Beach Profile Data (by littoral cell)

Accession For	
NTIS	CRA&I <input checked="" type="checkbox"/>
DTIC	TAB <input type="checkbox"/>
Unannounced <input type="checkbox"/>	
Justification	
By	
Distribution /	
Availability Codes	
Dist	Avail and/or Special
A-1	



SOUTHERN CALIFORNIA  
COASTAL PHOTOGRAPHY AND BEACH PROFILE INDEX

PURPOSE OF REPORT

1. The purpose of this report is to compile an inventory of the aerial photography, ground photos and beach profile data along the Coast of California that are available in the U. S. Army Corps of Engineers, Los Angeles District (LAD; also includes other Federal, State, and local governmental agencies).
2. These photographs and beach profiles were compiled to document dimensions and beach characteristics, historic shoreline changes, effects of storms and structures on the beach, and any significant beach and inlet changes.
3. The information described in this report is available for use and inspection by Government agencies, educational institutions, coastal engineers and other coastal interest groups.

HISTORICAL PHOTOGRAPHS (Pre-1972)

4. Historical photos, cataloged by coastal miles (see Plate No. 1), are available in the Los Angeles District's Coastal Resources Branch and include aerial photographs taken between the years of 1920 and 1972. However, the very early flights were somewhat sketchy and it was not until 1938 that fairly comprehensive flights became available. The coastal mileage commences at the United States-Mexico Border (0.0 miles) and increases in an up-coast (northward) direction to approximate mile 392.0 (Piedras Blancas Point) in San Luis Obispo County. Counties within the coastal mileage are presented in



Table 1. A listing of the historical photos (1920 through 1959) are shown on plates 3, 4, and 5 (bar graphs). For the years 1960 through 1972 a list of vertical flights are shown on Table 2. This list is organized by coastal miles and these photos are currently located in Room 6624 (213 894-5407) at the LAD. The negatives for all flights are stored in the Federal Archive files at Laguna Niguel, California.

5. From the mid 1950's to 1972 the flight coverage became quite comprehensive due to a contract between the Corps and the U. S. Navy aerial photography squadron located in San Diego. The Navy flew training flights quite frequently and the Corps received a set of the flight negatives for its files. In the early 1970's these flights were dropped due to budgetary constraints.

6. In addition to the historical aerial photos in the Coastal Resources Branch files, a collection of historical ground photos, organized by county, has also been assembled. These ground photos date back to 1937 and were taken at the same ground locations through the years until 1972. Ground photo station descriptions are shown in Table 3. These photos are also located in Room 6624 at the LAD.

#### AERIAL PHOTOGRAPHY (Post-1972)

7. The vertical aerial photographs (Table 4) taken by the Los Angeles District after 1972 are kept in Survey Branch, Mapping Section, in Engineering Division (Room 6018, Phone No. 213 894-5550). These files also contain a small number of pre-1972 aerial photographs.

8. Table 5 shows aerials available from other agencies, although individual prints are kept on file at LAD.

#### BEACH PROFILE DATA

9. Hydrographic and topographic survey data of the Coast of California collected by the Corps of Engineers, Los Angeles District, and other governmental agencies are kept by Survey Section, Survey Branch, Engineering Division. The data sheets cover the years from about 1937 to 1985.

10. These surveys are listed on Plates 6 through 35 by littoral cell\* rather than by area description, alphabetically, or coastal mileage. A littoral cell location map is shown on Plate 2.

11. Not all the surveys are available in profile form. Many are plan-view, or on tabulation sheets. The plan-view prints are stored in the Engineering File Room (at LAD) and the tabulation sheets are located in the Survey Section (at the LAD Base Yard in El Monte).

12. In addition to the above profiles there are limited ocean-bottom profiles available at LAD (Coastal Resources Branch) taken from the fishing piers at Ventura, Hueneme, Huntington Beach, Newport Beach, and Ocean Beach.

#### U. S. COAST AND GEODETIC SURVEY HISTORICAL BATHYMETRY

13. An index of the historical hydrographic surveys conducted by the U. S. Department of Commerce, Coast and Geodetic Survey (USCGS) are presented in

\*A littoral cell is defined as a bounded segment of coastline in which the littoral sediment cycle is generally self-contained, i.e. the cell has its own unique sources and sinks of sediment, and little sediment is transported from cell to cell.

Figures 1 through 5. The dates of the surveys range from 1851 to 1977 and encompass the coastline from San Diego to Santa Cruz, California.

14. The USCGS maps may be obtained at the offices of NOAA, National Ocean Survey, Rockville, Maryland 20852.

#### LOS ANGELES DISTRICT CONTACTS

15. For additional information regarding aerial photography and beach profile data, available from the Los Angeles District, the following LAD offices can be contacted:

Aerial Photographs	
Pre-1972 Coastal Resources Branch	(213) 894-5407
Post-1972 Survey Branch, Mapping Section	(213) 894-5550
Beach Profiles	
Survey Branch, Survey Section	(213) 283-2757
General Information	
Coastal Resources Branch	(213) 894-5400

TABLE I

COASTAL MILEAGE CHART  
(BY COUNTIES)MEXICAN BORDER  
TO  
CAPE SAN MARTINSAN DIEGO COUNTY

1	SAN YSIDRO.....	0.0-6.0
2	POINT LOMA.....	6.5-21.5
3	LA JOLLA.....	22.0-31.0
4	DEL MAR.....	31.0-39.5
5	ENCINITAS.....	39.5-48.5
6	SAN LUIS REY.....	48.5-53.0
7	OCEANSIDE.....	52.5-59.0
8	LAS PULGAS CANYON.....	59.0-65.0
9	SAN ONOFRE BLUFF.....	65.0-71.0

ORANGE COUNTY

10	SAN CLEMENTE.....	71.0-74.5
11	DANA POINT.....	74.5-83.5
12	SAN JUAN CAPISTRANO.....	83.0-84.5
13	LAGUNA BEACH.....	84.5-93.5
14	NEWPORT BEACH.....	93.5-102.0
15	SEAL BEACH.....	102.0-112.0

LOS ANGELES COUNTY

16	LONG BEACH.....	111.5-119.5
17	TORRANCE.....	118.5-120.0
18	SAN PEDRO.....	119.0-128.0
19	REDONDO.....	128.0-141.0
20	VENICE.....	141.5-151.0
21	BEVERLY HILLS.....	151.0-152.0
22	TOPANGA.....	151.5-159.0
23	MALIBU BEACH.....	159.5-166.5
24	POINT DUME.....	166.5-175.0
25	TRIUNFO PASS.....	175.0-182.5

VENTURA COUNTY

26	POINT MUGU.....	182.5-193.0
27	OXNARD.....	193.5-203.5
28	VENTURA.....	203.5-211.5
29	PITAS POINT.....	211.5-218.5
30	WHITE LEDGE PEAK.....	218.5-220.5

SANTA BARBARA COUNTY

31	CARPINTERIA.....	220.0-227.5
32	SANTA BARBARA.....	227.5-235.0
33	GOLETA.....	235.0-242.0
34	DOS PUEBLOS CANYON.....	242.0-250.0
35	TAJIGUAS.....	250.0-257.0
36	GAVIOTA.....	257.0-264.5
37	SACATE.....	264.5-271.5
38	POINT CONCEPTION.....	271.5-281.0
39	TRANQUILLON MT.....	281.5-290.0
40	POINT ARGUELLO.....	290.0-296.0
41	SURF.....	296.0-304.5
42	CASMALIA.....	304.5-314.5
43	POINT SAL.....	314.5-324.0

SAN LUIS OBISPO COUNTY

44	ARROYO GRANDE.....	324.5-339.5
45	PORT SAN LUIS.....	339.5-351.0
46	CAYUCOS.....	351.0-374.0
47	SAN SIMEON.....	373.0-389.5
48	PIEDRAS BLANCAS.....	389.5-399.0
49	CAPE SAN MARTIN.....	398.5-420.0

Table 2

## HISTORICAL VERTICAL AERIAL PHOTOGRAPHS

DRAWER NO. 1

<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>	<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>
-1.5/9.0	1964	MAR.	30.0/40.0	1970	JULY
-0.5/6.1	1970	JULY	30.0/50.0	1972	JULY
-0.2/2.0	1966	DEC.	30.75/80.5	1968	APR.
0.0/10.0	1970	JULY	32.5/38.8	1965	MAY
0.0/35	1968	APR.	34.5	1965	SEPT.
0.0/0.9	1967	JAN.	35.0/36.0	1967	FEB.
0.0/6.5	1965	APR.	37.0	1965	SEPT.
0.0/20.0	1972	JULY	38.0/40.5	1967	FEB.
0.0/24.7	1968	APR.	39.0/49.8	1965	MAY
0.0/25.0	1963	FEB.	39.4/43.7	1965	MAY
0.1/49.2	1972	MAR.	39.5	1966	DEC.
0.5/3.0	1965	DEC.	40.0/50.0	1970	AUG.
0.6/10.0	1967	JAN.	40.0/50.0	1970	JULY
1.0/3.0	1965	APR.	43.4/49.7	1965	APR.
1.0/22.0	1965	SEPT.	44.8	1965	SEPT.
1.5	1970	JULY	45.5/53.0	1967	FEB.
1.5/11.0	1968	APR.	47.7/56.8	1969	JULY
3.2	1970	JULY	48.5/59.0	1965	APR.
3.25	1970	JULY	49.0/58.0	1974	JUNE
4.0/25.0	1966	JAN.	49.5/52.0	1965	SEPT.
9.0/17.0	1967	FEB.			
9.2/25.0	1964	MAR.			
10.3/14.0	1965	APR.			
10.5/20.0	1970	JULY			
13.5	1967	FEB.			
14.2/24.3	1965	APR.			
14.6/20.0	1970	AUG.			
16.0/20.0	1970	AUG.			
20.0/25.0	1966	JAN.			
20.0/30.0	1970	AUG.			
20.0/30	1972	JULY			
20.0/30.0	1970	JULY			
20.8/33.0	1970	AUG.			
21.5	1965	SEPT.			
22.0	1966	DEC			
22.3	1970	AUG.			
22.5/28.0	1967	JAN.			
25.0/26.75	1968	APR.			
25.0/50.0	1964	MAR.			
25.0/51.0	1967	JAN.			
25.25/40.0	1968	APR.			
27.5/53.0	1966	DEC.			
30.0/40.0	1970	AUG.			

Table 2 (cont.)

## HISTORICAL VERTICAL AERIAL PHOTOGRAPHS

DRAWER #2

<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>	<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>
42.5/56.0	1967	JAN.	52.0/79.0	1967	JAN.
45.0/60.0	1964	MAR.	53.0/60.0	1970	JULY
47.5/58.0	1964	FEB.	53.5/57.5	1965	DEC.
49.5/58.0	1963	OCT.	53.5/67.5	1966	DEC.
49.5/60.0	1966	DEC.	54.0/55.5	1970	JULY
49.5/63.5	1980	OCT.	54.0/57.25	1968	APR.
(COLOR)			54.0/58.0	1970	FEB.
49.6/57.8	1969	AUG.	54.1/55.0	1970	FEB.
50.0/56.0	1960	SEPT.	(COLOR)		
50.0/59.5	1972	JULY	54.2/57.5	1965	SEPT.
50.0/59.5	1963	APR.	54.25/57.0	1960	AUG.
50.0/59.7	1963	MAP	54.5/56.5	1966	JAN.
50.0/60.0	1970	AUG.	54.5/58.0	1969	MAR.
50.0/63.2	1965	APR.	55.0/57.5	1946	FEB.
50.6/57.5	1964	JUNE	55.5/73.0	1960	SEPT.
50.7/73.5	1960	FEB.	55.7/60.0	1963	FEB.
51.0/74.5	1964	MAR.	56.3/57.8	1970	FEB.
51.5/56.5	1974	JUNE	(COLOR)		
(COLOR INC.)			56.8/59.0	1969	JULY
51.5/77.5	1963	FEB.	89.5/100.0	1970	FEB.
52.0	1967	FEB.	89.5/127.0	1967	FEB.
52.0/56.0	1965	APR.			

Table 2 (cont.)

## HISTORICAL VERTICAL AERIAL PHOTOGRAPHS

DRAWER #2

<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>	<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>
60.0/70.0	1972	JULY	78.5/81.5	1969	JULY
60.0/70.0	1970	JULY	79.0	1969	JULY
60.0/80.0	1970	AUG.	79.0	1966	DEC.
63.5/75.0	1966	APR.	79.0/79.5	1969	OCT.
68.0/81.0	1966	DEC.	79.0/80.5	1970	FEB.
70.0/71.0	1970	FEB.	(COLOR)		
(COLOR)			79.0/80.0	1969	MAR.
70.0/73.5	1970	FEB.	79.3	1967	JAN.
70.0/80.0	1970	JULY	79.3	1970	JULY
70.0/80.0	1972	JULY	80.0	1964	JUNE
70.0/80.0	1970	AUG.	80.0/90.0	1970	AUG.
70.25/71.5	1968	APR.	80.0/90.0	1972	JULY
70.5/71.5	1965	SEPT.	80.3/94.3	1965	MAY
70.5/72.5	1969	MAR.	80.5/89.5	1970	JULY
71.7/72.2	1970	FEB.	80.5/102.5	1966	DEC.
72.0	1966	DEC.	80.5/136.0	1968	APR.
75.0/80.4	1965	APR.	80.7	1970	JULY
75.5/99.5	1963	FEB.	84.0	1965	SEPT.
76.0/99.5	1964	MAR.	87./88.0	1969	MAR.
77.8/79.6	1965	DEC.	87.0/88.1	1970	FEB.
78.5/79.0	1965	SEPT.	(COLOR)		
78.5/79.7	1969	AUG.	87.0/100.0	1970	JULY
			87.5	1970	JULY

Table 2 (cont.)

## HISTORICAL VERTICAL AERIAL PHOTOGRAPHS

DRAWER #3

<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>	<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>
90.0/92.75	1967	OCT.	93.6/99.75	1970	MAR.
90.0/100.0	1972	JULY	93.7/99.0	1971	SEPT.
90.0/100.0	1972	MAR.	93.7/99.3	1970	JAN.
90.8/99.5	1971	AUG.	93.7/99.4	1970	JULY
91.7/100.0	1971	MAY	93.7/99.5	1967	DEC.
92.0/98.5	1969	JUNE	93.7/99.6	1970	MAY
92.3/93.4	1970	NOV.	93.75/99.5	1969	NOV.
92.3/95.5	1968	JUNE	93.9/110.5	1973	MAR.
93.3/100.3	1969	FEB.	(COLOR)		
92.4/99.0	1971	JULY	94.0/109.5	1965	APR.
92.5/99.5	1969	FEB.	96.0/98.5	1977	NOV.
92.5/99.5	1969	JAN.	96.3/99.9	1967	DEC.
92.7/99.5	1969	SEPT.	(Frames Missing)		
92.7/99.7	1971	NOV.	96.3/103.1	1977	JULY
92.7/99.7	1971	NOV.	95.6	JULY	1970
92.7/99.7	1969	AUG.	(Groin Field as 1970)		
92.8/99.3	1972	APR.	96.7/102.5	1965	JUNE
93.0/93.5	1965	SEPT.	96.75/99.75	1967	OCT.
93.0/98.5	1969	APR.	(S. Ana River Fr. Missing)		
93.0/99.0	1972	MAR.	97.0	1967	FEB.
93.0/99.2	1971	MAR.	(Newport Harbor)		
93.0/99.2	1971	FEB.	97.0/102.4	1965	MAR.
93.0/99.5	1972	MAR.	97.5/99.3	1965	DEC.
93.0/99.5	1971	APR.	97.5/99.6	1965	DEC.
93.0/99.5	1971	JUNE	98.5/100.0	1969	MAR.
93.0/00.5	1969	OCT.	(S. A. Storm Delta)		
93.0/99.75	1969	APR.	99.0	1969	MAY
93.0/100.0	1968	DEC.	(S.A. Storm Delta)		
93.0/100.0	1968	NOV.	99.0	1966	DEC.
93.0/100.0	1968	AUG.	99.0	1965	SEPT.
93.0/100.0	1968	MAY	99.25	1969	DEC.
93.0/103.5	1065	SEPT.	99.25	1969	JAN.
93.2/99.2	1972	JAN.	99.3/101.0	1968	NOV.
93.25/98.0	1968	FEB.	99.5/101.5	1968	DEC.
93.25/99.75	1967	AUG.	99.7/103.7	1968	AUG.
(Partial Set)					
93.3/99.2	1970	DEC.			
93.3/99.7	1970	OCT.			
93.4/99.6	1970	MAY			
93.5/99.4	1970	SEPT.			
93.5/99.5	1970	AUG.			
93.5/99.5	1975	APR.			
93.5/99.5	1970	APR.			
93.5/99.5	1968	OCT.			
93.5/99.7	1965	APR.			
93.5/100.7	1969	DEC.			
93.5/100.7	1969	DEC.			
(Extra Set)					



Table 2 (cont.)

## HISTORICAL VERTICAL AERIAL PHOTOGRAPHS

DRAWER #4

<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>	<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>
100.0	1969	JULY	135.5/172.9	1967	JAN.
100.0/114.7	1965	APR.	136.0/149.0	1970	JULY
100.0/148.4	1972	MAR.	136.25/178.75	1968	APR.
100.0/152.2	1972	JULY	(Frames Missing)		
100.0/110.0	1970	JULY	136.7/147.0	1970	JULY
101.0/139.5	1963	FEB.	138.0	1967	FEB.
(Frames Missing)			138.0/140.0	1970	JULY
101.0/139.5	1964	MAR.	138.5/147.5	1965	MAY
102.5/104.5	1965	MAY	139.0/139.5	1965	SEPT.
102.5/105.0	1965	JUNE	139.5/156.5	1965	MAY
103.0/124.25	1966	DEC.	140.0	1964	JUNE
104.0/122.0	1966	JAN.	140.5/141.0	1967	JAN.
(NEG.)			145.5/172.5	1966	DEC.
106.5/112.5	1965	SEPT.	147.4/148.6	1970	FEB.
107.0/109.5	1965	APR.	(COLOR)		
107.2/115.0	1964	JUNE	147.5/148.5	1965	SEPT.
107.3/110.5	1965	JUNE	147.5/149.5	1969	MAR.
107.5/110.5	1980	FEB.	148.0	1966	DEC.
108.0	1964	MAY	148.0	1964	JUNE
108.0/110.0	1965	JUNE	148.0/160.0	1970	JULY
108.0/124.0	1967	FEB.	149.0/150.0	1967	FEB.
109.0	1979	OCT.	150.5/170.5	1963	FEB.
109.0/110.5	1970	JULY	150.5/175.0	1964	MAR.
109.3/112.2	1970	FEB.	151.5/170.0	1970	JULY
(COLOR)			152.0	1968	APR.
109.5/110.0	1969	MAR.	152.5/179.5	1972	MAR.
110.0	1967	FEB.	152.7/159.5	1972	JULY
110.5/119.5	1970	JULY	152.75/154.75	1966	DEC.
111.0	1966	DEC.	154.5/159.75	1965	MAY
111.0	1965	SEPT.	155.5/157.0	1969	MAR.
111.0/120.0	1970	FEB.	156.0/157.4	1970	FEB.
111.5/113.0	1965	MAR.	(COLOR)		
114.8/127.0	1965	APR.			
118.0/120.0					
(With Neg.)					
120.0	1967	FEB.			
121.0/123.0	1966	JAN.			
121.75	1970	JULY			
124.75/145.0	1966	DEC.			
126.0/139.0	1965	MAY			
126.0/150.0	1964	MAR.			
126.0/150.0	1963	FEB.			
129.8/134.5	1970	JULY			
130.0/132.3	1970	JULY			
130.0/150.0	1972	JULY			
132.7/136.5	1970	JULY			
132.7/137.0	1970	JULY			

Table 2 (cont.)

## HISTORICAL VERTICAL AERIAL PHOTOGRAPHS

DRAWER #5

<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>	<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>
160.0/164.0	1969	MAR.	186.7/209.2	1969	JAN.
160.0/165.75	1965	MAY	186.8/189.4	1970	FEB.
161.3/169.6	1972	JULY	186.8/205.0	1973	MAR.
161.9/163.7	1970	FEB.	187.0/189.0	1969	MAR.
(COLOR)			186.8/205.0	1973	MAR.
162.5	1966	DEC.	187.0/189.0	1969	MAR.
165.0/177.25	1967	JAN.	187.0/207.5	1964	MAR.
165.5/177.7	1967	JAN.	187.5/197.0	1964	JAN.
166.0/169.75	1965	MAY	187.7/190.0	1969	APR.
169.5/175.0	1964	MAR.			
170.0/174.75	1965	MAY			
170.0/179.5	1970	JULY			
170.0/183.0	1970	JULY			
171.5	1966	DEC.			
171.5/195.0	1968	APR.			
(Broken Set)					
173.2/218.2	1972	APR.			
174.5/184.5	1970	JULY			
175.0/184.0	1965	MAY			
175.2/197.5	1964	MAR.			
180.0/197.0	1972	JULY			
180.0/199.5	1972	MAR.			
180.0/219.0	1970	MAY			
181.0/201.0	1967	JAN.			
181.3/207.0	1969	APR.			
182.5/189.4	1970	FEB.			
183.5/205.0	1968	OCT.			
184.5/203.0	1972	DEC.			
184.5/203.0	1972	DEC.			
184.5/203.0	1972	DEC.			
184.5/203.0	1972	DEC.			
185.0/201.8	1970	JULY			
185.5/189.5	1966	DEC.			
185.6/206.5	1967	FEB.			
186.0/207.0	1967	MAR.			
186.0/207.5	1967	SEPT.			
186.0/214.0	1969	MAY			
186.1/189.0	1969	MAY			
186.1/189.0	1969	MAY			
186.2/207.0	1968	JULY			
186.25	1970	JULY			
186.3/203.4	1973	FEB.			
186.3/207.0	1969	NOV.			
186.5/199.0	1962	MAR.			
186.5/202.2	1970	JULY			
186.5/204.2	1973	JAN.			
186.5/207.0	1968	JULY			

Table 2 (cont.)

## HISTORICAL VERTICAL AERIAL PHOTOGRAPHS

DRAWER #6

<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>	<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>
188.0/206.0	1966	NOV.	189.0/205.0	1962	APR.
188.0/206.0	1966	AUG.	189.0/206.0	1964	DEC.
188.0/206.0	1966	JAN.	189.0/206.0	1964	NOV.
188.0/206.0	1965	DEC.	189.0/206.0	1963	APR.
188.9/206.0	1964	OCT.	189.0/206.0	1962	AUG.
188.0/206.0	1964	JUNE	189.0/206.5	1964	APR.
188.0/206.0	1962	OCT.	189.0/206.5	1964	JAN.
188.0/207.0	1967	JUNE	189.0/207.0	1967	JUNE
(NEG.)			189./207.0	1962	DEC.
188.0/207.0	1965	JUNE	(Vent. River)		
188.0/207.6	1965	AUG.	189.0/207.0	1962	JUNE
188.0/209.5	1963	SEPT.	189.0/207.5	1965	MAY
188.45/193.9	1969	MAY	189.0/208.0	1965	JAN.
188.5/206.5	1963	NOV.	189.5/197.5	1962	FEB.
188.5/207.0	1964	AUG.			
188.5/207.0	1964	MAY			
188.5/207.0	1963	DEC.			
188.5/207.5	1963	OCT.			
188.7/206.7	1967	DEC.			
188.7/206.7	1967.	NOV.			
188.8/200.0	1965	MAY			
189.0/199.0	1962	NOV.			
189.0/200.0	1962	SEPT.			
189.0/203.0	1963	JAN.			
(S.C. Riv.)					

Table 2 (cont.)

## HISTORICAL VERTICAL AERIAL PHOTOGRAPHS

DRAWER #7

<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>	<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>
190.0/208.0	1963	MAR.	SAME AS ABOVE	1960	AUG.
191.0/202.5	1962	JAN.	SAME AS ABOVE	1960	AUG.
(Frames Missing)			SAME AS ABOVE	1960	AUG.
191.5	1966	DEC.	SAME AS ABOVE	1960	AUG.
191.5/198.5	1960	MAR.	193.0/200.0	1960	APR.
191.5/203.0	1962	JULY	193.0/200.5	1961	JUNE
192.0/197.0	1961	JUNE	193.0/210.0	1963	FEB.
192.5/197.0	1961	JAN.	193.0/225.0	1964	APR.
192.5/197.4	1960	SEPT.	193.5/197.0	1961	MAR.
192.5/198.5	1960	NOV.	193.5/198.0	1960	NOV.
193.0/197.5	1960	MAR.	193.5/198.0	1960	FEB.
193.0/198.0	1961	FEB.	193.5/206.0	1961	NOV.
193.0/198.0	1960	AUG.	194.0	1969	MAY
193.9/198.0	1960	FEB.	194.0/197.4	1960	JUNE
193.0/198.0	1960	JAN.			
193.0/198.5	1961	JAN.			
193.0/198.5	1960	MAY			
193.0/200.0	1960	DEC.			
193.0/200.0	1960	DEC.			
(With Neg.)					
193.0/200.0	1960	OCT.			
(Negs. Only)					
193.0/200.0	1960	OCT.			
(With Neg.)					
SAME AS ABOVE	1960	SEPT.			
SAME AS ABOVE	1960	SEPT.			
SAME AS ABOVE	1960	SEPT.			
SAME AS ABOVE	1960	SEPT.			

Table 2 (cont.)

## HISTORICAL VERTICAL AERIAL PHOTOGRAPHS

DRAWER #7  
(CONTINUED)

<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>	<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>
194.0/198.0	1961	APR.	196.0/205.0	1962	FEB.
194.0/198.0	1960	JULY	196.0/205.5	1962	MAY
194.0/198.0	1960	JAN.	196.0/205.5	1962	MAY
194.0/198.5	1960	APR.	196.0/210.0	1960	SEPT.
194.0/198.5	1960	JAN.	196.5/277.0	1968	APR.
194.0/199.0	1960	MAR.	197.0	1966	DEC.
194.5/197.5	1960	FEB.	197.0	1961	MAR.
194.5/198.0	1961	MAY	(With Neg.)		
194.5/198.0	1960	FEB.	SAME AS ABOVE	1961	FEB.
194.5/200.0	1970	JULY	SAME AS ABOVE	1960	JAN.
194.5/207.5	1964	JUNE	SAME AS ABOVE	1960	JULY
195.0/197.5	1960	MAY	SAME AS ABOVE	1960	JUNE
195.0/206.0	1961	JAN.	197.0	1960	MAY
195.5/197.0	1960	MAR.	197.0	1960	APR.
195.5/197.2	1965	SEPT.	197.0	1960	FEB.
195.5/197.5	1961	APR.	197.0	1960	FEB.
195.5/197.5	1960	JULY	197.5	1969	MAY
(With Negs.)			197.5	1960	AUG.
195.5/197.5	1960	APR.	(Neg. Only)		
195.5/201.0	1962	FEB.	197.5	1960	JULY
195.5/204.5	1962	FEB.	197.5	1960	APR.
196.0	1970	JULY	(With Neg.)		
196.0	166	DEC.	SAME AS ABOVE	1960	JAN.
196.0/197.0	1960	MAR.	198.0/204.5	1973	JAN.
196.0/201.5	1962	FEB.	198.2/205.6	1972	NOV.
			198.7	1972	JULY
			199.0	1962	JAN.

Table 2 (cont.)

## HISTORICAL VERTICAL AERIAL PHOTOGRAPHS

DRAWER #8

<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>	<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>
200.0/209.0	1972	MAR.	206.0/241.0	1961	AUG.
200.25/220.75	1965	MAY	206.5	1965	DEC
200.5/209.0	1969	FEB.	206.5/244.0	1960	SEPT.
201.0/263.5	1972	SEPT.	206.5/231.6	1972	MAY
201.0/225.0	1970	JULY	206.5/231.6	1972	MAY
201.0/203.5	1969	MAR.	207.0	1969	NOV.
201.0/203.5	1962	FEB.	215.5/239.5	1970	JULY
201.5/226.0	1967	JAN.	218.0/219.0	1969	MAR.
202.5/204.0	1969	MAR.	218.2/219.3	1970	FEB.
202.5/206.5	1967	FEB.	(COLOR)		
202.5/206.0	1961	JAN.	218.5	1969	MAR.
202.5/214.3	1960	FEB.	218.5/224.7	1965	MAY
203.0	1969	NOV.	219.0/232.7	1972	APR.
203.0	1969	NOV.	220.5/223.5	1969	MAR.
203.0	1969	MAY	224.5/275.25	1967	JAN.
203.0	1966	DEC.	226.0/250.0	1964	APR.
203.0	1966	DEC.	(Incomplete)		
203.0/206.0	1962	JAN.	226.5/252.0	1969	MAY
203.5/204.5	1963	SEPT.	229.5/231.5	1969	MAR.
(With Neg.)			230.5/231.5	1965	SEPT.
204.0/205.0	1965	SEPT.	231.0/231.5		
204.3/206.7	1972	NOV.			
204.5	1969	NOV.			
204.5/207.5	1969	MAR.			
204.5/205.2	1966	DEC.			
206.0/218.0	1961	JAN.			

Table 2 (cont.)

## HISTORICAL VERTICAL AERIAL PHOTOGRAPHS

DRAWER #8

(CONTINUED)

<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>	<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>
236.4/242.5	1960	SEPT.	276.5/288.5	1964	MAR.
238.5/240.0	1969	MAR.	276.5/284.0	1960	SEPT.
238.7/239.7	1970	FEB.	276.6/280.25	1965	APR.
(COLOR)			277.0/283.0	1961	SEPT.
239.0/240.3	1966	DEC.	278.0/318.0	1968	APR.
240.0/249.75	1965	JUNE	278.3/291.0	1967	JAN.
240.0/289.0	1970	JULY	282.5/292.0	1960	SEPT.
240.5/264.5	1960	SEPT.	283.5/292.5	1961	SEPT.
241.0/244.5	1961	AUG.	287.6/305.0	1964	APR.
242.3/263.0	1970	AUG.	(Incomplete)		
244.0/253.0	1961	OCT.	291.4/305.5	1967	MAR.
245.0/263.0	1961	FEB.	292.5/299.5	1965	JUNE
250.0/277.0	1961	SEPT.	293.0/301.0	1961	SEPT.
250.5/278.0	1964	APR.	294.5/306.5	1960	AUG.
250.7/262.5	1965	MAY	295.5/321.0	1967	JAN.
251.0/174.5	1961	AUG.	298.0/327.5	1970	AUG.
255.0/274.5	1965	APR.			
263.5/276.0	1968	MAY			
265.3/278.0	1960	SEPT.			
276.0/284.0	1965	MAY			

Table 2 (cont.)

## HISTORICAL VERTICAL AERIAL PHOTOGRAPHS

DRAWER #9

<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>	<u>MILEAGE</u>	<u>PHOTO</u>	<u>DATE</u>
300.0/325.0	1964	APR.	346.5	1967	JAN.
301.5/309.8	1965	JUNE	349.0/375.0	1964	APR.
307.0/318.0	1960	AUG.	350.0/357.0	1965	MAY
310.0/319.8	1965	JUNE	350.0/364.0	1965	MAY
312.8/317.5	1964	APR.	350.0/385.0	1970	JULY
315.5/317.5	1961	AUG.	351.0/365.0	1961	SEPT.
319.5/339.5	1961	SEPT.	351.0/356.5	1970	AUG.
320.1/329.7	1965	JUNE	351.5/371.0	1960	AUG.
321.25/357.0	1967	JAN.	356.5/366.75	1967	JAN.
322.0/324.0	1969	FEB.	358.0/361.0	1969	FEB.
322.5/393.0	1968	APR.	358.0/393.0	1967	JAN.
325.5/350.0	1964	APR.	326.5/370.5	1961	SEPT.
323.0/340.5	1960	AUG.	364.5/374.7	1965	MAY
326.0/348.5	1970	JULY	368.5/400.0	1960	AUG.
326.0/326.5	1969	FEB.	(Ragged Pt.)		
330.0/333.3	1965	JUNE	371.0/384.0	1960	SEPT.
332.5/339.6	1965	JUNE	373.0/386.0	1969	FEB.
333.0/366.5	1969	FEB.	375.2/387.2	1964	APR.
337.0/352.0	1960	AUG.	375.2/392.0	1965	MAY
338.5/349.5	1961	SEPT.	377.0/413.5	1970	AUG.
339.0/350.0	1965	MAY	382.0/393.0	1961	SEPT.
342.0/346.5	1970	AUG.	392.0/415.5	1960	AUG.



Table 3.

HISTORICAL GROUND PHOTOGRAPH STATIONS

SAN DIEGO COUNTY

<u>MILE</u>	<u>LOCATION</u>
21.50	<u>Ocean Beach, Station 1:</u> Downcoast view of fishing pier, in line with 3d bent from shore, and rear of brown building one block inland.
21.50	<u>Ocean Beach, Station 2:</u> Upcoast view from upcoast end of 4 ft concrete retaining wall at foot of Niagara Street. (Pier)
25.40	<u>Crystal Pier:</u> Downcoast view from 300 ft upcoast of pier in line with seaward end of 4th bungalow from seaward end of Pier.
3.70	<u>Imperial Beach, Station 1:</u> Upcoast, downcoast and seaward views from Station 2+00 on groin no. 1 - Station 2+00 is 25 ft seaward of drain pipe across groin.
3.50	<u>Imperial Beach, Station 2:</u> Upcoast view of steel sheet-pile bulkhead from 54 ft seaward of house no. 634 3d fr. north.
3.40	<u>Imperial Beach, Station 4:</u> Downcoast and seaward views from southwest corner of concrete slab over groin no. 2.
3.30	<u>Imperial Beach, Station 5:</u> Downcoast view from southside of Elm Street, and in line with 5th bent of Imperial Beach Pier.
35.40	<u>Soledad Valley:</u> Downcoast view from edge of bluff at north end of bridge at Carmel Valley Road intersection with Hwy. 1.
40.20	<u>Cardiff, Station 2:</u> Upcoast view opposite downcoast end of "CARDIFF SEA SHELL" shop.
40.70	<u>Cardiff, Station 1:</u> Downcoast view of San Elijo Lagoon from 3d wood post downcoast of seaward side of guard station at downcoast end of Cardiff State Beach.
43.00	<u>Moonlight State Beach:</u> Upcoast view from seaward edge of bluff parking lot, at end of "C" Street.
49.40	<u>Agua Hedionda:</u> Upcoast view from wooden fence post next to 6" x 6" concrete monument, 12 ft from edge of Hwy 1 pavement, opposite most northerly stack of power plant.
53.40	<u>Oceanside Beach, Station 4:</u> Up and downcoast views from downcoast end of wooden guard rail, at end of Wisconsin Avenue.

Table 3. (Continued)

HISTORICAL GROUND PHOTOGRAPH STATIONS

SAN DIEGO COUNTY

<u>MILE</u>	<u>LOCATION</u>
54.20	<u>Oceanside Beach, Station 2:</u> Downcoast view from 200 ft upcoast of pier, in line with 5th bent seaward of building.
54.20	<u>Oceanside Beach, Station 3:</u> Up and downcoast views from pier, even with seaward edge of building under pier.
54.60	<u>Oceanside Beach, Station. 1:</u> Up and downcoast views from 180 ft seaward of 9th Street.
54.80	<u>Oceanside Groin:</u> Up and downcoast views from large, flat rock on upcoast side of groin, 210 ft seaward of baseline 275 ft seaward of downcoast power poles.

Table 3 (Continued)

## HISTORICAL GROUND PHOTOGRAPH STATIONS (cont.)

ORANGE COUNTY

<u>MILE</u>	<u>LOCATION</u>
74.4	<u>San Clemente Beach</u> - Upcoast and downcoast views from 1st landing of pedestrian overpass over railroad, about 0.3 mi. south of pier, at corner of Paseo Cristobal and Esplanada Street.
74.4	<u>San Clement Pier</u> - Take Del Mar Dr. to pier. Downcoast view of pier in line with 3d bent seaward from building.
79.3	<u>San Juan Creek</u> - Seaward view of creek from end of Hwy. 1 bridge.
84.5	<u>Aliso Creek</u> - Upcoast view from north corner of stucco wall at top of hill, south of creek.
87.8	<u>Laguna Beach</u> - Upcoast and downcoast views from small, wooden shelter, behind Victor Hugo Inn, On Cliff Dr.
90.2	<u>El Morro Beach</u> - Upcoast view from edge of bluff, west of wash at culvert near highway marker post BB 373/74.
91.2	<u>Crystal Cove - Station 2</u> - Downcoast view from U.S.C & G.S. ROCKY BIGHT at end of path through fence at highway marker post B 325/21.
91.3	<u>Crystal Cove - Station 1</u> - Downcoast view from power pole, with square box, at downcoast side of housing area.
93.6	<u>Coronal del Mar State Beach</u> - Upcoast and downcoast views from Narcissus Avenue, 100 ft. seaward of curb, opposite house no. 3526 Narcissus Avenue, 100 ft. seaward.
95.1	<u>Balboa Pier</u> - Downcoast view of pier from 240 ft. upcoast of pier, in line with 2nd bent seaward of bait and Tackle shop.
102.4	<u>Bolsa Chica State Beach</u> - Downcoast view near downcoast end of beach, and upcoast of oil wells.
110.6	<u>Seal Beach - Station 1</u> - Downcoast view of pier from 200 ft. upcoast of pier, in line with seaward pile of 2nd X-braced bent with lamp post.
110.6	<u>Seal Beach - Station 2</u> - Upcoast and downcoast views from 2nd lamp post on pier.

Table 3. (Continued)

HISTORICAL GROUND PHOTOGRAPH STATIONS (cont.)

LOS ANGELES COUNTY

<u>MILE</u>	<u>LOCATION</u>
121.9	<u>Cabrillo Beach</u> - Downcoast view from end of West Third Street, bluff top.
140.3	<u>Hermosa Pier</u> - Downcoast view of pier from 200 ft. upcoast, in line with third light pole seaward from flagpoles.
141.9	<u>Manhattan Pier</u> - Upcoast and downcoast views of pier from 200 ft. upcoast, in line with third light post on pier proper.
154.9	<u>Bel Aire Beach Club</u> - Upcoast and downcoast views of groins.
155.3	<u>Sunset Boulevard - Station No. 2</u> - Downcoast view from downcoast end of parking lot, 20 ft. seaward from utility pole with brace arm.
155.3	<u>Sunset Boulevard - Station No. 1</u> - Downcoast view of groin from 3d metal post from upcoast end of fence. Enter through Seashore Inn.
155.8	<u>Will Rogers State Beach</u> - Downcoast view from 5th metal, guard rail post from shore from View Point.
155.9	<u>Castle Rock</u> - Downcoast view from 50 feet upcoast from light pole at downcoast end of Ted's Cafe parking lot.
157.2	<u>Tunas Canyon</u> - Upcoast view from mail box No. 19002, at downcoast end of guard rail of culvert across from Tunas Canyon Road.
157.5	<u>Las Tunas State Beach - Station No. 2</u> - Downcoast view from house No. 19264, approximately 5 power poles downcoast from Station No. 1.
157.6	<u>Las Tunas State Beach - Station No. 1</u> - Upcoast view of groins from downcoast end of heavy, wooden guard rail, 200 ft. upcoast from green, Travelodge sign, across from failing concrete retaining wall at house No. 19355.
162.2	<u>Malibu Pier</u> - Downcoast view of pier from 150 ft. upcoast from pier, in line with 2 nd bent seaward from Malibu Inn on pier.
165.5	<u>Corral Beach</u> - Downcoast view from concret box 20 ft. downcoast from lifeguard station.

Table 3. (Continued)

HISTORICAL GROUND PHOTOGRAPH STATIONS (cont.)

LOS ANGELES COUNTY

<u>MILE</u>	<u>LOCATION</u>
166.0	<u>Solstice Canyon</u> - Upcoast view from 50 ft. downcoast from pier, in line with 2nd bent seaward from Malibu Inn on pier.
167.2	<u>Escondido Canyon</u> - Downcoast from downcoast pile, Upcoast from Escondido Creek Bridge.
168.4	<u>Paradise Cove - Station 2</u> - Downcoast view from downcoast shore end of pier at first light standard.
168.4	<u>Paradise Cove - Station 1</u> - Downcoast view of pier from 145 ft. seaward of upcoast end of cafe, in line with 2nd pile bent.
173.3	<u>Trancas Creek</u> - Seaward view from downcoast end of highway bridge (BR 53-27) over Trancas Creek.
177.1	<u>Nicholas Canyon Beach</u> - Turn off Highway 1, east of mail box No. 33618, on to black top road, continue to where road rejoins highway.
178.4	<u>Leo Carillo State Beach - Station 2</u> - Seaward view of beach from upcoast end of highway bridge (BR 53-26) over Arroyo Sequit Cr.
178.7	<u>Leo Carillo State Beach - Station 1</u> - Downcoast view from power pole No. 1393631E, 50 ft. upcoast from blank highway marker, and 0.3 mi. south of Ventura.

Table 3. (Continued)

HISTORICAL GROUND PHOTOGRAPH STATIONS (cont.)

VENTURA COUNTY

<u>MILE</u>	<u>LOCATION</u>
180.40	<u>Little Sycamore Creek</u> : Station 2. Downcoast view from halfway between power poles 135 ft downcoast from highway marker 1.57 by culvert and 30 ft upcoast of seawall.
180.50	<u>Little Sycamore Creek</u> : Station 1. Upcoast view from 4th power pole downcoast from previous station at pole No. 955999E.
180.80	<u>Deer Canyon</u> : Station 3. Seaward view from highway marker 1.95.
181.10	<u>Deer Canyon</u> : Station 2. Seaward view from 110 ft downcoast of power pole No. 955999E, 95 ft downcoast of blank orange survey marker.
181.50	<u>Deer Canyon</u> : Station 1. Seaward view of groin seaward of canyon mouth.
181.7	<u>Bass Rock</u> : Station 4. Seaward and downcoast views 3 power poles downcoast from previous station, 80 ft upcoast of power pole No. 955982E.
182.00	<u>Bass Rock</u> : Station 3. Seaward view from 5th power pole downcoast from "BASS ROCK CAFE" at pole No. 955970E, near benchmark 913.
182.10	<u>Bass Rock</u> : Station 2. Seaward view opposite end of groin just upcoast of "BASS ROCK CAFE".
182.20	<u>Bass Rock</u> : Station 1. Seaward view from one power pole downcoast from previous station at pole No. PS 729H.
182.40	<u>Big Sycamore Creek</u> : Station 4. Seaward view from highway marker 3.50, 30 ft downcoast of power pole No. 955964E.
183.30	<u>Big Sycamore Creek</u> : Station 3. Downcoast view of Sycamore pier from 200 ft upcoast in line with 8th bent from land end of pier.
183.50	<u>Big Sycamore Creek</u> : Downcoast view from 12 ft seaward of edge of pavement 165 ft upcoast of Big Sycamore Creek bridge BR 52-11, in line with seaward railing of old highway 1 bridge on landward side of new Highway.

Table 3. (Continued)

HISTORICAL GROUND PHOTOGRAPH STATIONS (cont.)

VENTURA COUNTY

<u>MILE</u>	<u>LOCATION</u>
183.60	<u>Big Sycamore Creek</u> : Station 1. Upcoast view from 150 ft downcoast of large, flat rock with "USC & GS" reference to angle point "SHALE" and 15 ft landward of angle point in old seawall.
185.20	<u>Rocky Beach</u> : Downcoast view from brass disc and concrete monument, "DIVISION OF HIGHWAYS-STATE OF CALIFORNIA", halfway through parking area - 50 ft shoulder.
185.70	<u>Point Mugu</u> : Station 2. Downcoast view from Pacific Coast Highway marker 6.80.
186.30	<u>Point Mugu</u> : Station 1. Upcoast view from 4th iron fence post from north end of bluff off old highway 1, just upcoast of Point Mugu rock.
192.50	<u>Arnold Road</u> : Station 1. Upcoast view from most seaward post of chain link fence.  <u>Arnold Road</u> : Station 2. Downcoast view from 100 ft upcoast of fence in line with third pile seaward from fence corner.
194.90	<u>Hueneme Fishing Pier</u> : Upcoast and Downcoast views from first bent beyond "Tee" junction of old and new pier.
195.3	<u>Hueneme Park</u> : Upcoast and downcoast views from top of revetment along seaward side of park at Second St.
195.80	<u>Port Hueneme Downcoast Jetty</u> : Enter U.S. Coast Guard station. Upcoast and downcoast views from corner of chain link fence on top of revetment near yellow painted offset C/E baseline Station 6-E on rock.
204.60	<u>Groin No. 2</u> : End of Sagamore Lane, two views of groin from 100 ft upcoast and downcoast at berm.
204.70	<u>Groin No. 4</u> : End of Winthrop Lane, two views of groin from 100 ft upcoast and downcoast at berm.
204.80	<u>Groin No. 5</u> : Between Bangor and Dover Lanes, two views of groin from 100 ft upcoast and downcoast at berm.
205.10	<u>Groin No. 7</u> : End of San Pedro Road, two views of groin from 100 ft upcoast and downcoast at berm.

Table 3. (Continued)

HISTORICAL GROUND PHOTOGRAPH STATIONS (cont.)

VENTURA COUNTY

<u>MILE</u>	<u>LOCATION</u>
205.40	<u>Groin No. 8</u> : Second groin downcoast of pier, two views of groin from 100 ft upcoast and downcoast at berm.
205.80	<u>Groin No. 9</u> : First groin downcoast of pier, two views of groin from 100 ft upcoast and downcoast at berm.
206.00	<u>Ventura Pier</u> : Station 1. Downcoast view of pier from 325 ft upcoast of pier, 100 ft seaward of downcoast end of elevated concrete walkway, in line with second pier bent seaward of bait and tackle shop.  <u>Ventura Pier</u> : Station 2. Upcoast and downcoast views from power pole seaward of eating stand on pier.
208.50	<u>Emma Wood State Beach</u> : Station 3. Upcoast view from downcoast end of old concrete seawall near Cylindrical tank.
209.40	<u>Emma Wood State Beach</u> : Station 2. Upcoast view from 18 ft seaward of old concrete foundation opposite "DOWNTOWN VENTURA - RIGHT LANE" sign on old coast highway.
209.40	<u>Emma Wood State Beach</u> : Station 1. Turn seaward off 101 freeway at upcoast end of highway railroad overpass and follow road to downcoast end of bulkhead. Upcoast and downcoast views from 40 ft downcoast of bulkhead in line with second bent from upcoast end of bridge.
210.70	<u>Solimar Beach (Dulah)</u> : Upcoast and downcoast views from upcoast end of concrete seawall.
211.60	<u>Conoco Refinery</u> : Station 2. Downcoast view from upcoast end of 4 ft chain link fence, 100 ft from edge of 101 freeway.
211.80	<u>Conoco Refinery</u> : Station 1. Upcoast and downcoast views opposite smaller of two oil tanks on landward side 101 freeway.
212.20	<u>Pitas Point</u> : Up and downcoast views from near highway marker post 36.03 at USC&GS benchmark on concrete culvert headwall.
214.50	<u>Rincon Beach County Park N.4 - Hobson Park</u> : Downcoast view from highway marker post 38.58. Upcoast view from 1 ft knoll near Station B-63, 25 ft upcoast from "Hobson County Park" sign.



Table 3. (Continued)

HISTORICAL GROUND PHOTOGRAPH STATIONS (cont.)

VENTURA COUNTY

<u>MILE</u>	<u>LOCATION</u>
215.20	<u>Rincon Beach County Park No. 5 - Hoffman Park</u> : Turn off 101 freeway just downcoast of county fire station. Upcoast view from 30 ft. seaward of old tree, 130 ft downcoast of bulkhead.
215.60	<u>West of Seacliff</u> : Station 3. Downcoast view from first angle point on downcoast side of pier.
215.80	<u>West of Seacliff</u> : Station 2. Downcoast view from high voltage pole at downcoast side of pier.
216.00	<u>West of Seacliff</u> : Station 1. Downcoast view of most westerly (further upcoast) pier from highway marker post 40.13.
216.70	<u>Punta Gorda</u> : Richfield Pier. Turn seaward off 101 freeway at Punta Gorda (Rincon Cliff Motel). Turn sharp right and follow road to pier. Upcoast and downcoast views from shore end of pier.
218-80	<u>Rincon Point</u> : Upcoast and downcoast from top of concrete culvert at 101 Freeway marker post 43.19.

Table 3 (Continued)

HISTORICAL GROUND PHOTOGRAPH STATIONS (cont.)

SANTA BARBARA COUNTY

<u>MILE</u>	<u>LOCATION</u>
221.00	<u>Carpenteria, Station 3:</u> Turn seaward on 1st paved road at right angle to frontage road at downcoast end of Carpenteria. Downcoast view of Atkinson Pier from bluff in front of 5th upcoast post of iron bumperguard in parking lot.
221.7	<u>Carpenteria, Station 2:</u> Enter Carpenteria State Beach, go downcoast to stream. Downcoast view of beach, from point whererailroad semaphores are even with most westerly tower at ball field.
222.30	<u>Carpenteria, Station 1:</u> Turn off 101 freeway at Palm Avenue, continue to beach. Downcoast view of beach, from 200 ft upcoast of an abandoned ramp.
222.70	<u>Sandyland Cove:</u> Turn off 101 freeway at Carpenteria Avenue. Enter "Sandyland Cove Home Association" private property. Downcoast view of beach, from upcoast end of colony.
223.70	<u>Santa Clause Lane:</u> Turn seaward off 101 freeway at upcoast end of Santa Claus lane business district. Upcoast view of beach, from rock revetment opposite vent pipes at "Shell" service station.
227.10	<u>Summerland:</u> Downcoast 0.3 mi. from "SHEFFIELD" road sign. Downcoast view of beach, from edge of bluff, at downcoast end of chain link fence at "VIEW POINT".
227.50	<u>Fernald Point:</u> Upcoast view of beach, from 101 freeway, 300 ft upcoast of sign "SUMMERLAND EXIT 3/4 MILE".
228.30	<u>Santa Barbara, Station 3:</u> Downcoast view of beach, from end of eucalyptus Lane, at upcoast side of street.
228.90	<u>Santa Barbara, Station 2:</u> Downcoast view of beach, from inset in seawall, at Biltmore Hotel private beach entrance.
229.40	<u>Santa Barbara, Station 1:</u> Downcoast view of beach, from opposite house No. 1000 Channel Drive at old low stump at edge of cliff.
232.50	<u>Santa Barbara Point, Station 1:</u> Corner of La Marina and Shoreline Drive. Upcoast view of beach, from group of large trees a edge of bluff.  <u>Santa Barbara Point, Station 2:</u> Corner of La Marina and Shoreline Drive. Downcoast view of beach, from street-lamp post at SE corner of intersection.

Table 3. (Continued)

HISTORICAL GROUND PHOTOGRAPH STATIONS (cont.)

SANTA BARBARA COUNTY

<u>MILES</u>	<u>LOCATION</u>
235.30	<u>Arroyo Burro Beach</u> : Downcoast view of beach, from 30 ft seaward of west end of parking lot, and even with fence on bluff.
239.90	<u>Goleta, Station 2</u> : Downcoast view of pier, from seaward of upcoast end of parking lot, even with change in elevation of pier.  <u>Goleta, Station 3</u> : Downcoast view of beach, from pier at change in elevation.
240.30	<u>Goleta, Station 1</u> : Downcoast view of pier, from 33 ft seaward of underground building, upcoast of pier.
245.90	<u>Ellwood - Signal Oil Pier, Station 1</u> : Downcoast view of beach, from angle point on downcoast side of pier.  <u>Ellwood - Signal Oil Pier, Station 2</u> : Upcoast view of beach, from angle point on upcoast side of pier.
246.40	<u>Ellwood - Signal Oil Pier, Station 3</u> : Downcoast view of beach, from 4th guard rail post, from downcoast end of bluff, over-looking pier.
251.90	<u>El Capitan State Beach</u> : Downcoast view of beach, from point 60 ft upcoast, and 15 ft seaward, of rest rooms.
254.40	<u>Refugio State Beach, Station 2</u> : Upcoast view of beach, from upcoast end of guard rail, 0.1 mi. downcoast of culvert, over creek, near park entrance.
254.80	<u>Refugio State Beach, Station 1</u> : Downcoast view of beach, from 8th, 6" x 6", wooden guard rail post, west of the black topped post at highway culvert.
258.70	<u>Arroyo Hondo</u> : Downcoast view of beach, from bluff, even with west (upcoast) end of railroad bridge.
263.50	<u>Gaviota, Station 1</u> : Upcoast view of pier, in line with 4th pile bent from shore, and seaward of downcoast end of third double steel bent of railroad trestle.  <u>Gaviota, Station 2</u> : Downcoast view of pier, from 4th pile bent from shore.

Table 3. (Continued)

HISTORICAL GROUND PHOTOGRAPH STATIONS (cont.)

SAN LUIS OBISPO COUNTY

<u>MILE</u>	<u>LOCATION</u>
333.60	<u>Pismo State Beach, Station 3</u> : Downcoast view of Pismo Beach Pier from 160 ft upcoast, off upcoast end of concrete retaining wall.
334.30	<u>Pismo State Beach, Station 1</u> : Turn off Highway 101 at Seacrest Motel. Go thru Motel and follow path down to bluff. Thru wooden stairs to twin bluffs, upcoast view from upcoast bluff.
334.30	<u>Pismo State Beach, Station 2</u> : Downcoast view from downcoast bluff.
335.80	<u>Shell Beach</u> : Upcoast view from 2 large pine trees opposite red house on corner of Del Mar and Ocean Sts.
339.30	<u>Avila State Beach, Station 1</u> : Downcoast view of pier from 150 ft upcoast.
339.00	<u>Avila State Beach, Station 2</u> : Upcoast view from power pole at Front and San Antonio Sts, 3 blocks downcoast from pier.
362.60	<u>Standard Oil Pier</u> : At 3 mi north of Morro Bay. Downcoast view of pier from 200 ft upcoast of pier.
364.40	<u>Cayucos State Beach, Station 4</u> : Downcoast view of Old Creek from corner of 23d Street and Pacific Avenue, Cayucos.
365.20	<u>Cayucos State Beach, Station 3</u> : Downcoast view of pier from 200 ft upcoast.
365.30	<u>Cayucos State Beach, Station 2</u> : Downcoast view from 2nd expansion joint of west - upcoast - end of Cayucos Creek bridge.
365.40	<u>Cayucos State Beach, Station 1</u> : Seaward of old Highway 1, about 1/2 mi west of Cayucos Pier. Downcoast view from 3d, 6" x 6", wood, guard rail post west of power pole No. 628.
368.50	<u>Villa Creek</u> : Opposite old barn, 200 ft downcoast from entrance to Poletti Ranch. Seaward view from gas-main warning sign at fence, 100 ft from Highway 1.
380.10	<u>Cambria, Station 2</u> : Upcoast view from "USC & GS" station "CREEK". On top of small hill, off corner of Nottingham and Plymouth.

Table 3. (Continued)

HISTORICAL GROUND PHOTOGRAPH STATIONS (cont.)

SAN LUIS OBISPO COUNTY

<u>MILE</u>	<u>LOCATION</u>
380.30	<u>Cambria, Station 2:</u> Opposite power pole No. 1134, on Highway 1. Upcoast view from 100 ft downcoast from "CAMBRIA" sign.
380.40	<u>Cambria, Station 1:</u> On paved road off Highway 1 about 1/2 mi west of Cambria, overlooking Santa Rosa Creek (200 ft downcoast from Moonstone Motel). Downcoast view from solid wooden bench.
382.30	<u>San Simeon Creek:</u> Downcoast end of San Simeon Creek, from Highway 1 bridge. Upcoast view from 6th, 8" x 8", wooden guard rail post, from south end of guard rail.
384.20	<u>Pico Creek:</u> Downcoast view of Pico Creek, from Highway 1, bridge. Upcoast view from 1st angle point of chain link fence.
386.90	<u>San Simeon - Hearst Park, Station 1:</u> Upcoast of San Simeon Pier, in line with concrete steps to beach, viewing pier.
	<u>San Simeon - Hearst Park, Station 2:</u> Downcoast view from 2nd lightpost on pier.
	<u>San Simeon - Hearst Park, Station 3:</u> View of upcoast lagoon from 3d lightpost on pier.

Table 4

VERTICAL AERIAL PHOTOS (LAD)  
(MAPPING SEC., SURVEY BR., ENG. DIV.)

<u>LOCATION</u>	<u>TYPE</u>	<u>SCALE</u>	<u>DATE</u>
Mexican Border to Dana Pt.	Color	1"=1000'	2-1-83
Mexican Border to Santa Ynez River	Color	1"=1000'	3-19-84
Mexican Border to Dana Pt.	Color	1"=1000'	5-13-85
Silver Strand	B/W	1"=485'	Sept. 1937
Silver Strand	B/W	1"=417'	Apr. 1953
San Diego Bay	Color	1"=1000'	3-15-83
Sunset Cliffs	Color	1"=400'	1-7-78
Mission Bay	B/W	1"=1667'	11-3-52
Mission Bay	Color	1"=1000'	2-20-83
Oceanside Harbor	Color	1"=400'	12-30-82
Oceanside	Color	1"=3000'	5-7-78
Oceanside	B/W	1"=500'	7-28-83
Oceanside Shoreline	B/W	1"=200'	4-29-51
Dana Pt. Harbor	Color	1"=400'	12-30-82
Newport Bay	Color	1"=833'	3-5-73
Newport Bay	Color	1"=400'	12-30-83
Newport	B/W	1"=800'	9-9-45
Seal Beach to Anaheim Bay	B/W	1"=750'	7-6-83
Seal Beach to Newport Bay	Color	1"=3000'	10-31-79
Seal Beach to Newport Bay	B/W	1"=1000'	11-29-79
Seal Beach to Newport Bay	Color	1"=3000'	11-29-79
Seal Beach to Newport Bay	B/W	1"=1000'	12-28-79
Seal Beach to Newport Bay	Color	1"=3000'	12-28-79
Seal Beach to Newport Bay	B/W	1"=1000'	2-10-80
Seal Beach to Newport Bay	Color	1"=3000'	3-13-80
Seal Beach to Newport Bay	B/W	1"=1000'	3-13-80
Seal Beach to Newport Bay	Color	1"=3000'	4-8-80
Seal Beach to Newport Bay	B/W	1"=1000'	6-7-80
Seal Beach to Newport Bay	Color	1"=3000'	6-7-80
Seal Beach to Newport Bay	B/W	1"=1000'	7-7-80
Seal Beach to Newport Bay	Color	1"=3000'	7-7-80
Seal Beach to Newport Bay	Color	1"=3000'	8-7-80
Seal Beach to Newport Bay	B/W	1"=1000'	8-7-80
Seal Beach & Surfside	B/W	1"=500'	5-22-84
Seal Beach	B/W	1"=417'	8-20-56
Seal Beach	B/W	1"=1000'	12-12-66
Alamitos to Newport	B/W	1"=480'	9-10-37
Long Beach to Newport	B/W	1"=1000'	7-29-81
Long Beach to Newport	Color	1"=3000'	7-29-81
Long Beach to Newport	B/W	1"=1000'	10-18-80
Long Beach to Newport	Color	1"=3000'	10-18-80
Long Beach to Newport	Color	1"=3000'	11-18-80
Long Beach to Newport	B/W	1"=1000'	11-18-80
Long Beach to Newport	Color	1"=3000'	12-16-80
Long Beach to Newport	B/W	1"=1000'	12-16-80
Long Beach to Newport	Color	1"=3000'	1-31-81

Table 4. (Continued)

VERTICAL AERIAL PHOTOS (LAD)  
(MAPPING SEC., SURVEY BR., ENG. DIV.)

<u>LOCATION</u>	<u>TYPE</u>	<u>SCALE</u>	<u>DATE</u>
Long Beach to Newport	B/W	1"=1000'	3-17-81
Long Beach to Newport	Color	1"=3000'	3-17-81
Long Beach to Newport	B/W	1"=1000'	4-29-81
Long Beach to Newport	Color	1"=3000'	4-29-81
Los Angeles/Long Beach Harbors	Color	1"=1000'	12-30-82
Los Angeles Harbor	B/W	1"=800'	8-30-45
Pt. Fermin to Pt. Dume	B/W	1"=400'	1-24-46
Redondo King Harbor	Color	1"=400'	12-30-82
Marina Del Rey	B/W	1"=1000'	6-12-80
Marina Del Rey	I.R.	1"=200'	6-12-80
Marina Del Rey	Color	1"=400'	1-20-83
Pt. Dume	B/W	1"=844'	8-7-42
Pt. Dume	B/W	1"=1667'	11-3-52
Port Hueneme	Color	1"=400'	1-22-46
Channel Islands Harbor	Color	1"=400'	1-31-83
Hollywood Beach to Mugu	B/W	1"=600'	1-31-49
Ventura Marina	B/W	1"=1000'	2-13-69
Ventura Marina	Color	1"=400'	1-31-83
Santa Barbara	Color	1"=400'	1-31-83
Goleta and Vicinity	B/W	1"=1000'	3-14-80
Goleta and Vicinity	Color	1"=1000'	3-14-80
Goleta and Vicinity	B/W	1"=1000'	8-28-80
Morro Bay and San Luis Obispo	B/W	1"=500'	4-13-83
San Luis Obispo Bay	Color	1"=400'	1-31-83
Morro Bay	B/W	1"=1000'	6-6-45
Morro Bay	B/W	1"=1000'	2-22-67
Morro Bay	Color	1"=400'	12-29-82
Morro Bay	B/W	1"=500'	8-16-84
Morro Bay to Pt. Sur	B/W	1"=400'	6-19-74 to 1-23-75
Coast of California	Color	1"=400'	12-10-74
Coast of California	Color	1"=2000'	12-3-76
Coast of California	Color	1"=2000'	10-7-77
Coast of California	I.R.	1"=1000'	9-6-80
Coast of California	I.R.	1"=1000'	4-17-82
Coast of California	I.R.	1"=1000'	7-22-83
Coast of California	I.R.	1"=1000'	5-18-84
Coast of California	I.R.	1"=1000'	7-26-85
Shoreline River Mouths	Color	1"=1000'	2-3-69
Shoreline River Mouths	Color	1"=500'	3-2-69

Table 5.

VERTICAL AERIAL PHOTOS (OTHER AGENCIES)  
(ON FILE AT LOS ANGELES DISTRICT)

<u>LOCATION</u>	<u>SOURCE</u>	<u>TYPE</u>	<u>SCALE</u>	<u>DATE</u>
Silver Stand	CALTRANS	B/W	1"=200'	Jun. 1982
So. of Cape San Martin	CALTRANS	B/W	1"=250'	Apr. 1982
Crystal Cove Park	DWR	B/W	1"=500'	Oct. 1981
Ventura Area	CALTRANS	B/W	1"=200'	Aug. 1981
Torrey Pines	DWR	B/W	1"=200'	Jul. 1981
Malibu Area	CALTRANS	B/W	1"=500'	May 1981
Pacific Palisades	CALTRANS	B/W	1"=100'	Apr. 1981
Near Laguna Beach	CALTRANS	B/W	1"=100'	Aug. 1980
Orange Co. Coastline	DWR	B/W	1"=500'	Mar. 1980
Malibu Rd.	L.A. County	B/W	1"=300'	Jan. 1980
Rt. 101 to Rt. 126	CALTRANS	B/W	1"=200'	Nov. 1979
San Simeon, No.	CALTRANS	B/W	1"=200'	Nov. 1979
So. Laguna Beach	CALTRANS	B/W	1"=200'	Oct. 1979
Rt. 39 to Seal Beach	CALTRANS	B/W	1"=200'	Oct. 1979
Santa Barbara	DWR	B/W	1"=300'	Feb. 1979
San Simeon, No.	CALTRANS	B/W	1"=200'	Oct. 1979
Sunset Beach	CALTRANS	B/W	1"=200'	Jan. 1979
Santa Barbara Area	DWR	B/W	1"=1000'	Sep. 1978
Coastline; So. of Mugu	CALTRANS	B/W	1"=200'	Jul. 1978
Montana Del Oro State Park	DWR	B/W	1"=1000'	Jun. 1978
Calif. Coastline	DWR	B/W	1"=1000'	Mar-Apr-Jun 1978
Calif. Coastline	DWR	B/W	1"=1000'	Apr. 1978
Malibu Area, North	CALTRANS	B/W	1"=1000'	Aug-Sep-Oct 1977
Malibu to Santa Monica	CALTRANS	B/W	1"=200'	Oct. 1976
Calif. Coastline	DWR	B/W	1"=1000'	Mar. 1976
Three-Arch Bay	CALTRANS	B/W	1"=200'	Mar. 1975
Topanga Beach	City of L.A.	B/W	1"=2000'	Jun. 1974
Topanga Beach	City of L.A.	B/W	1"=500'	Jun. 1974
Huntington Beach	CALTRANS	B/W	1"=100'	Feb. 1974
Vicinity of Seacliff	CALTRANS	B/W	1"=250'	Nov. 1973
Santa Monica to Mex. Bdr.	F&G	B/W	VAR.	Sep. 1973
Grover City	DWR	B/W	1"=400'	Sep. 1973
Las Cruces to Santa Monica	F&G	B/W	VAR.	Aug. 1973
Pismo Beach	DWR	B/W	1"=400'	Jul. 1973
Ventura Area	CALTRANS	B/W	1"=400'	May 1973
Seacliff Area	CALTRANS	B/W	1"=150'	Apr. 1973
Ventura Area	CALTRANS	B/W	1"=200'	Mar. 1973
Playa Del Rey	City of L.A.	B/W	1"=1000'	Mar. 1973
Pitas Pt. to Punta Gorda	CALTRANS	B/W	1"=250'	Feb. 1973
No. of Oceanside	CALTRANS	B/W	1"=250'	Mar. 1971
Malibu to Santa Monica	CALTRANS	B/W	1"=250'	Mar. 1971
Seacliff	CALTRANS	B/W	1"=250'	Dec. 1970
Glen Annie Cyn.	CALTRANS	B/W	1"=250'	Aug. 1970
Arroyo Hondo	CALTRANS	B/W	1"=250'	Jul. 1970
Seacliff	CALTRANS	B/W	1"=250'	Apr. 1970



Table 5. (Continued)

VERTICAL AERIAL PHOTOS (OTHER AGENCIES) (cont.)

<u>LOCATION</u>	<u>SOURCE</u>	<u>TYPE</u>	<u>SCALE</u>	<u>DATE</u>
Seacliff	CALTRANS	B/W	1"=400'	Jun. 1970
Cape San Martin	CALTRANS	B/W	1"=200'	Mar. 1970
Calif. Coastline	St. Fish & Game	B/W	1"=1000'	Mar. 1970

NOTE: CALTRANS - California Dept. of Transportation  
DWR - State Dept. of Water Resources  
F & G - State Dept. of Fish and Game  
B/W - Black and White

DEPARTMENT OF COMMERCE  
U. S. Coast and Geodetic Survey  
Washington, D. C.

Topographic Index No. 1443

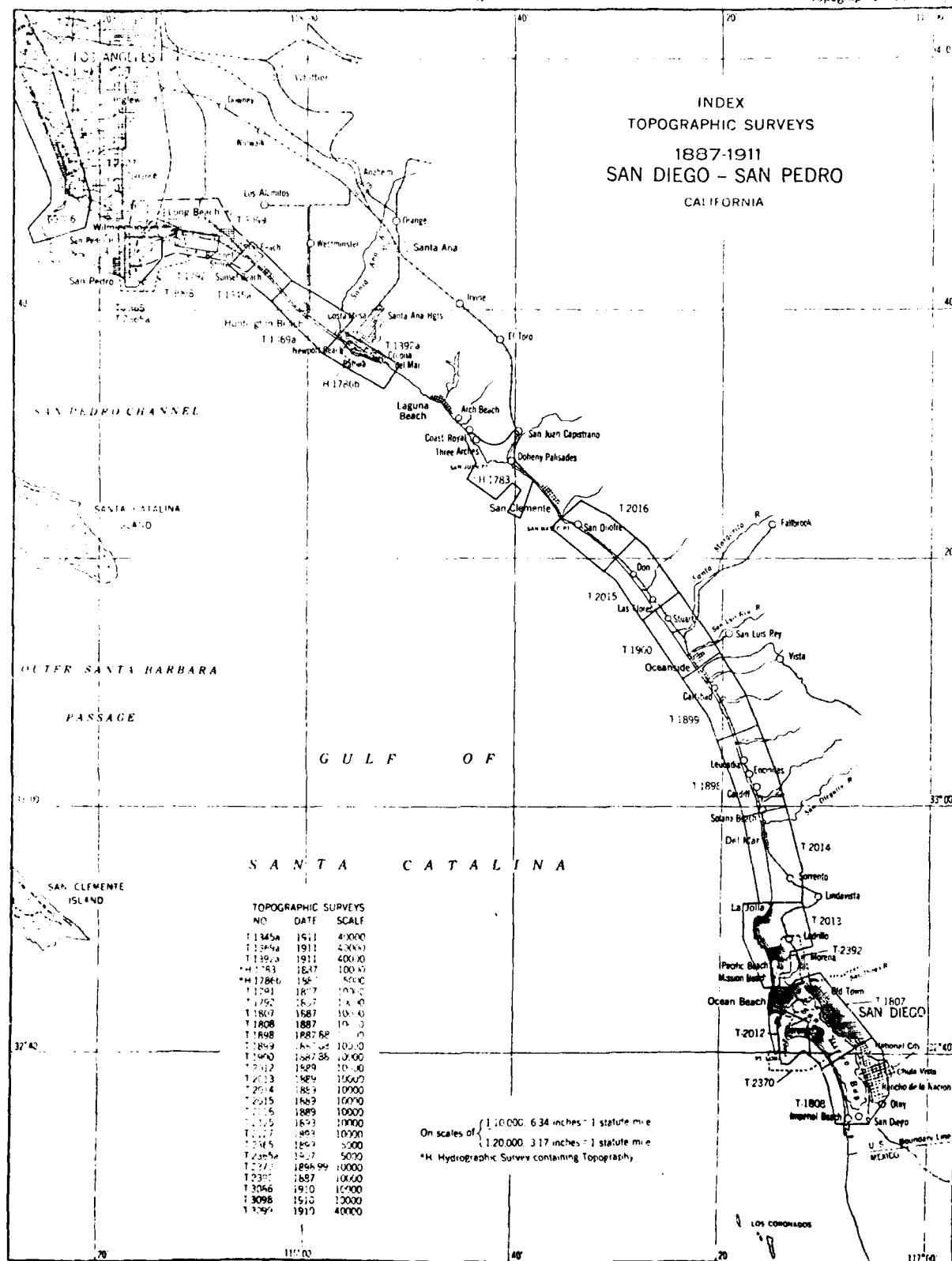


FIGURE 1

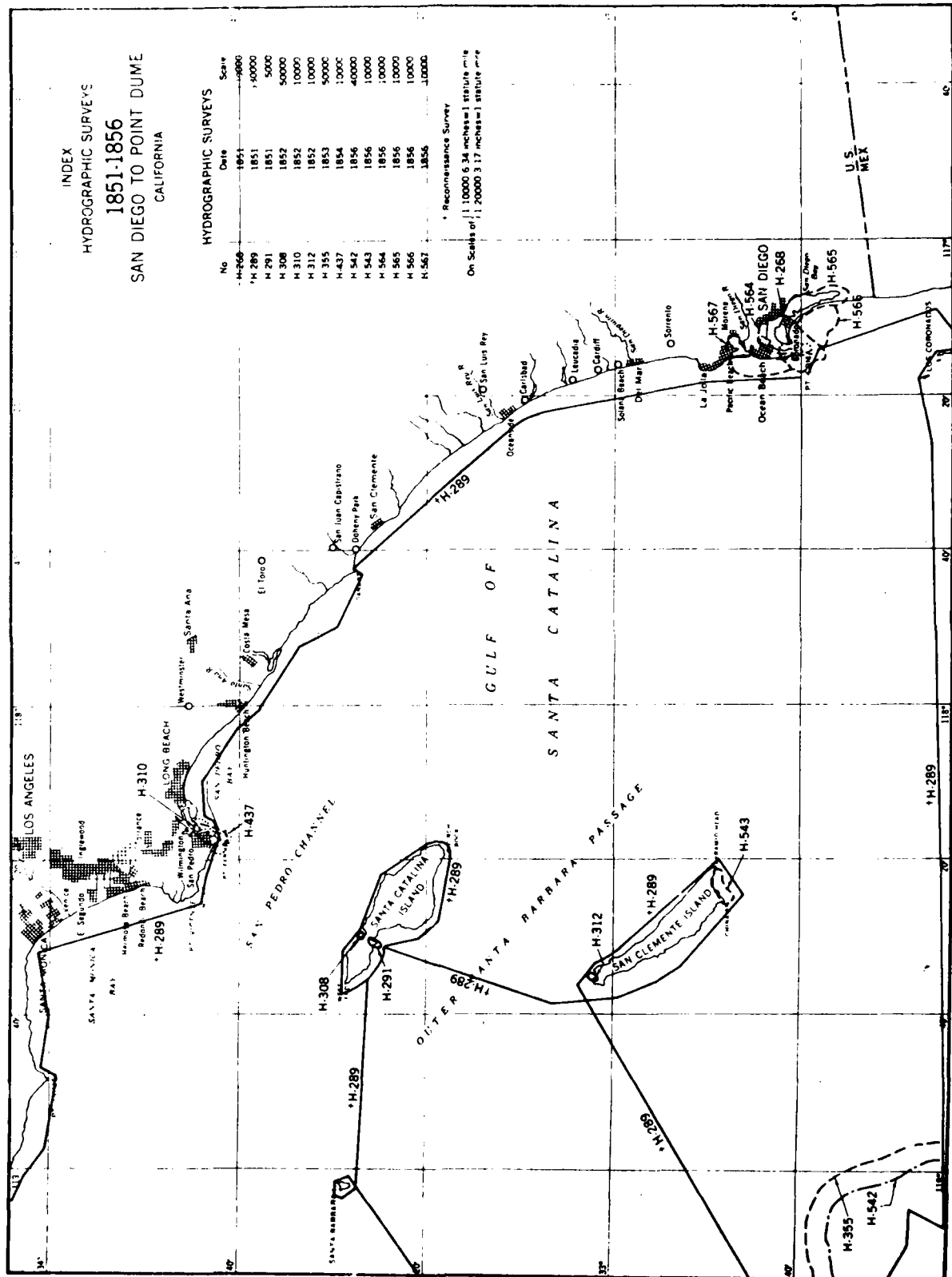


FIGURE 2

U.S. DEPARTMENT OF COMMERCE  
Coast and Geodetic Survey  
Washington, D. C.

Hydrographic Index No. 92 B

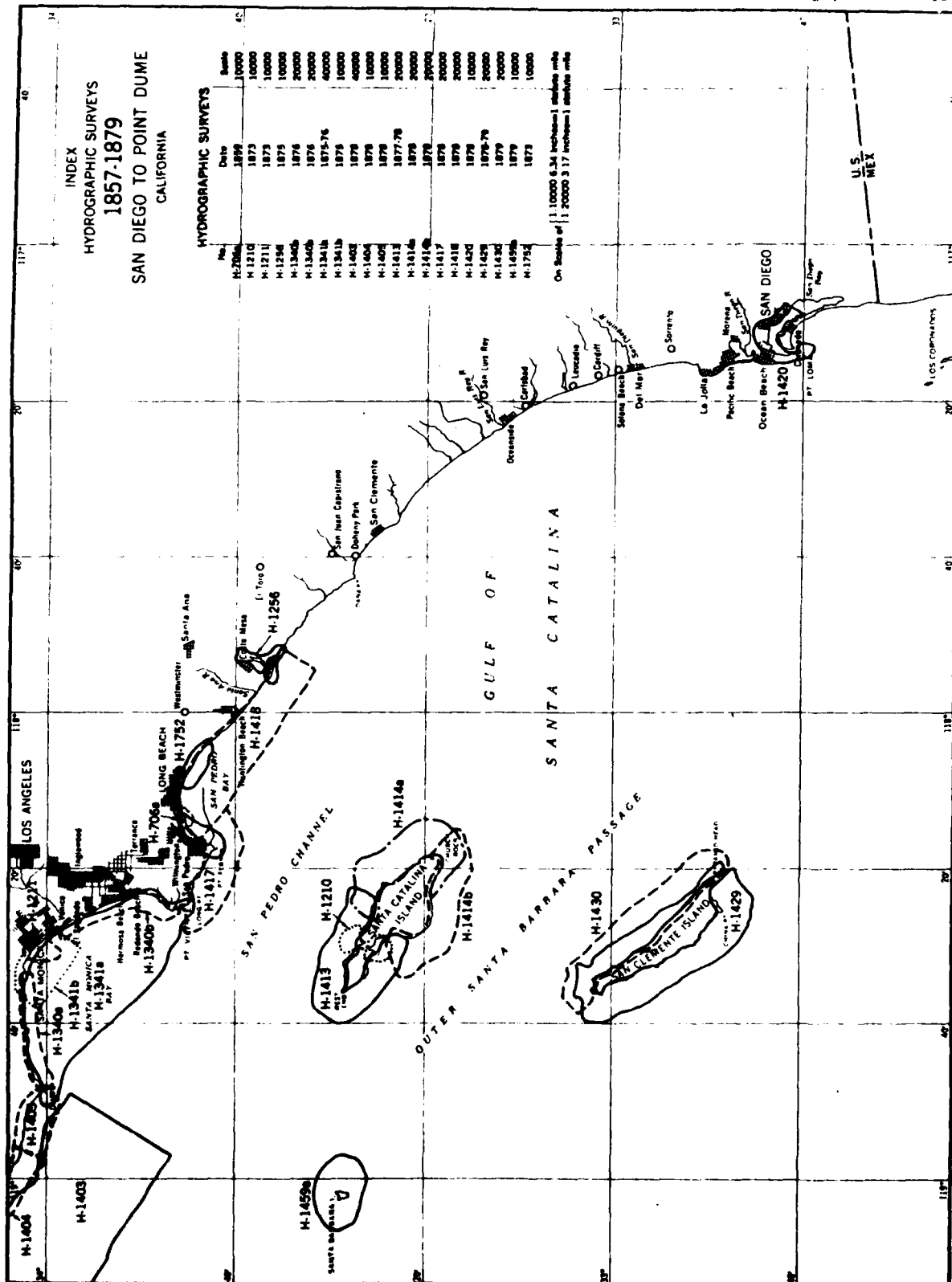


FIGURE 2 (CONT'D)

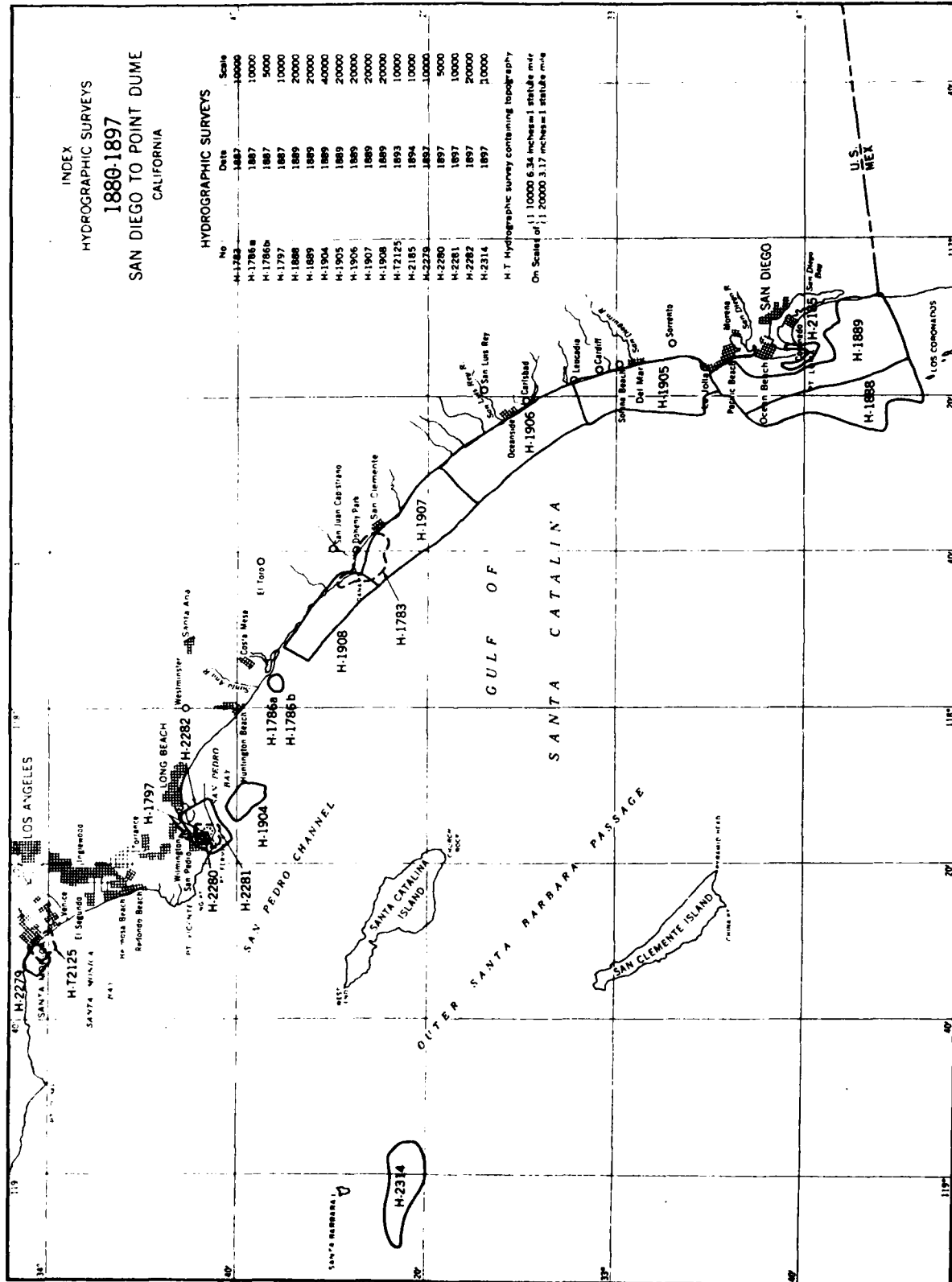
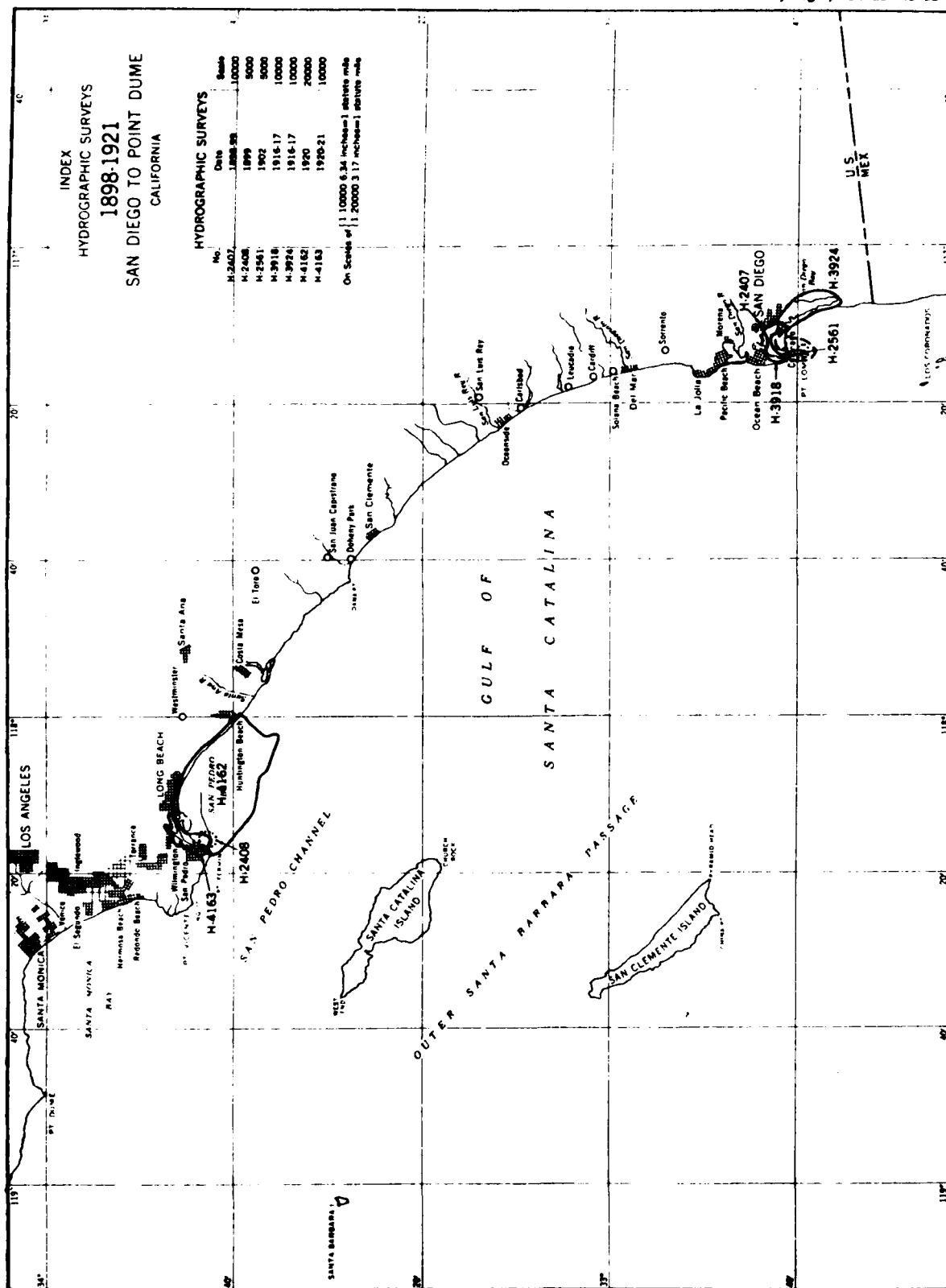


FIGURE 2 (CONT'D)



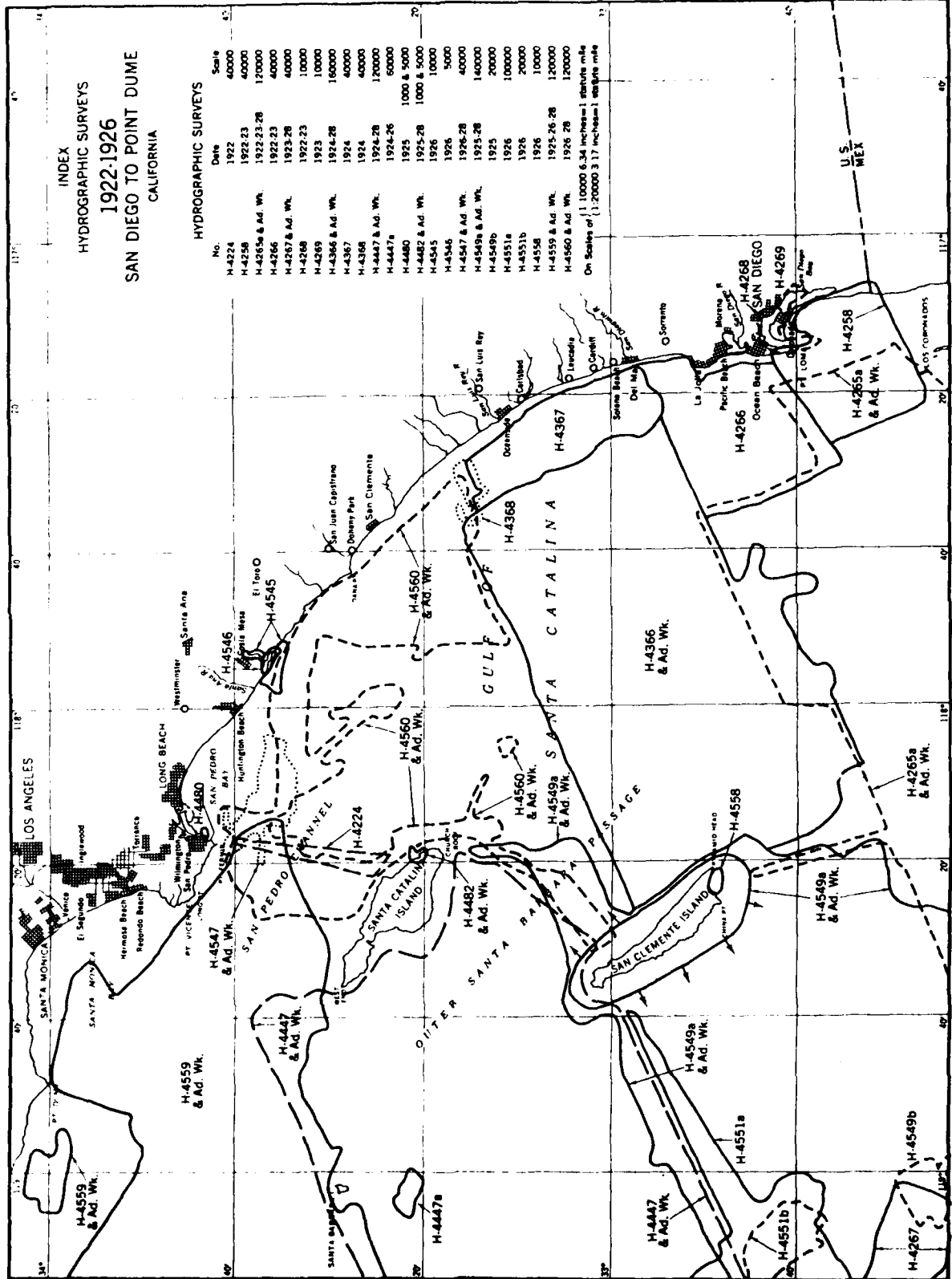
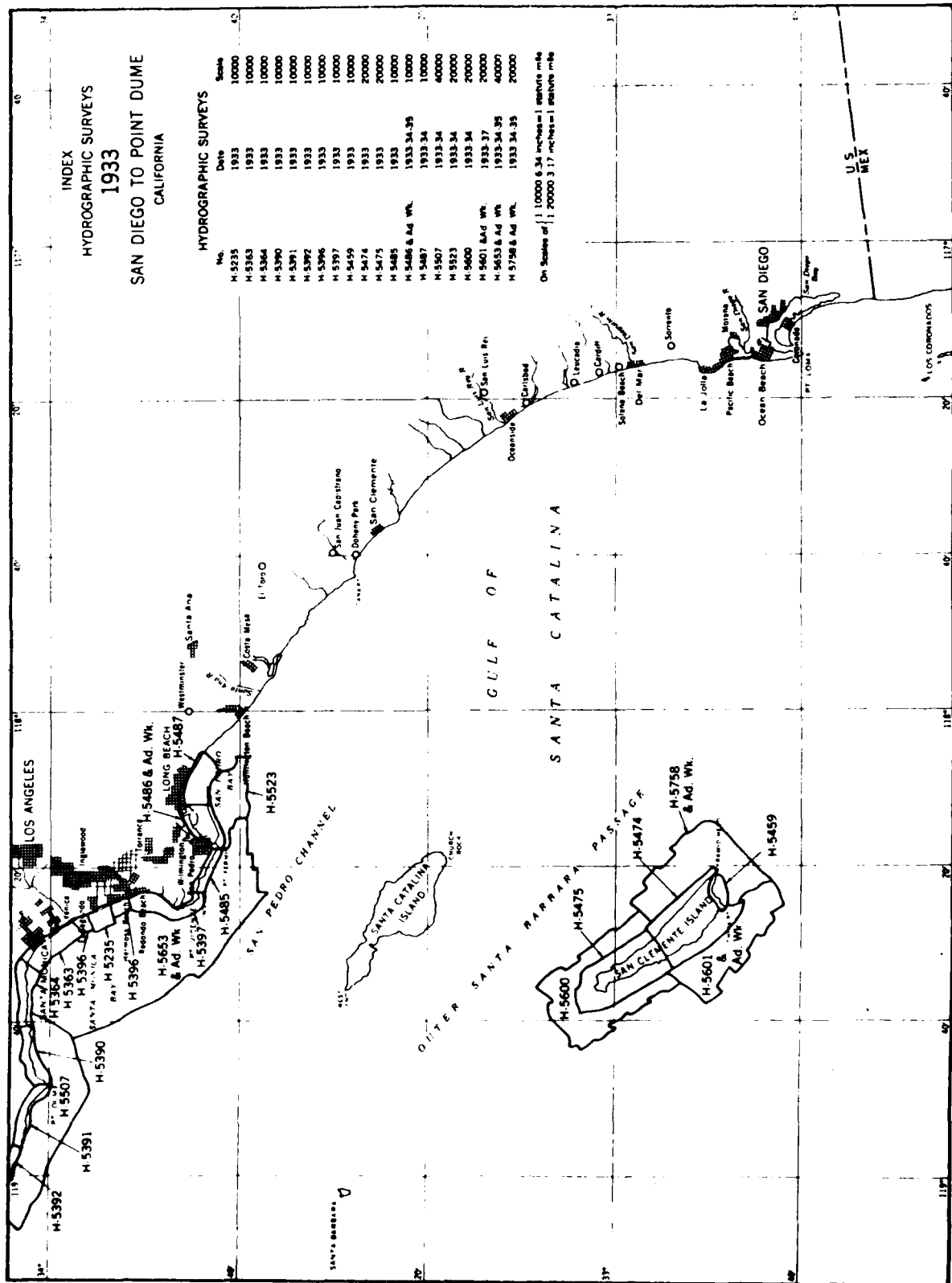


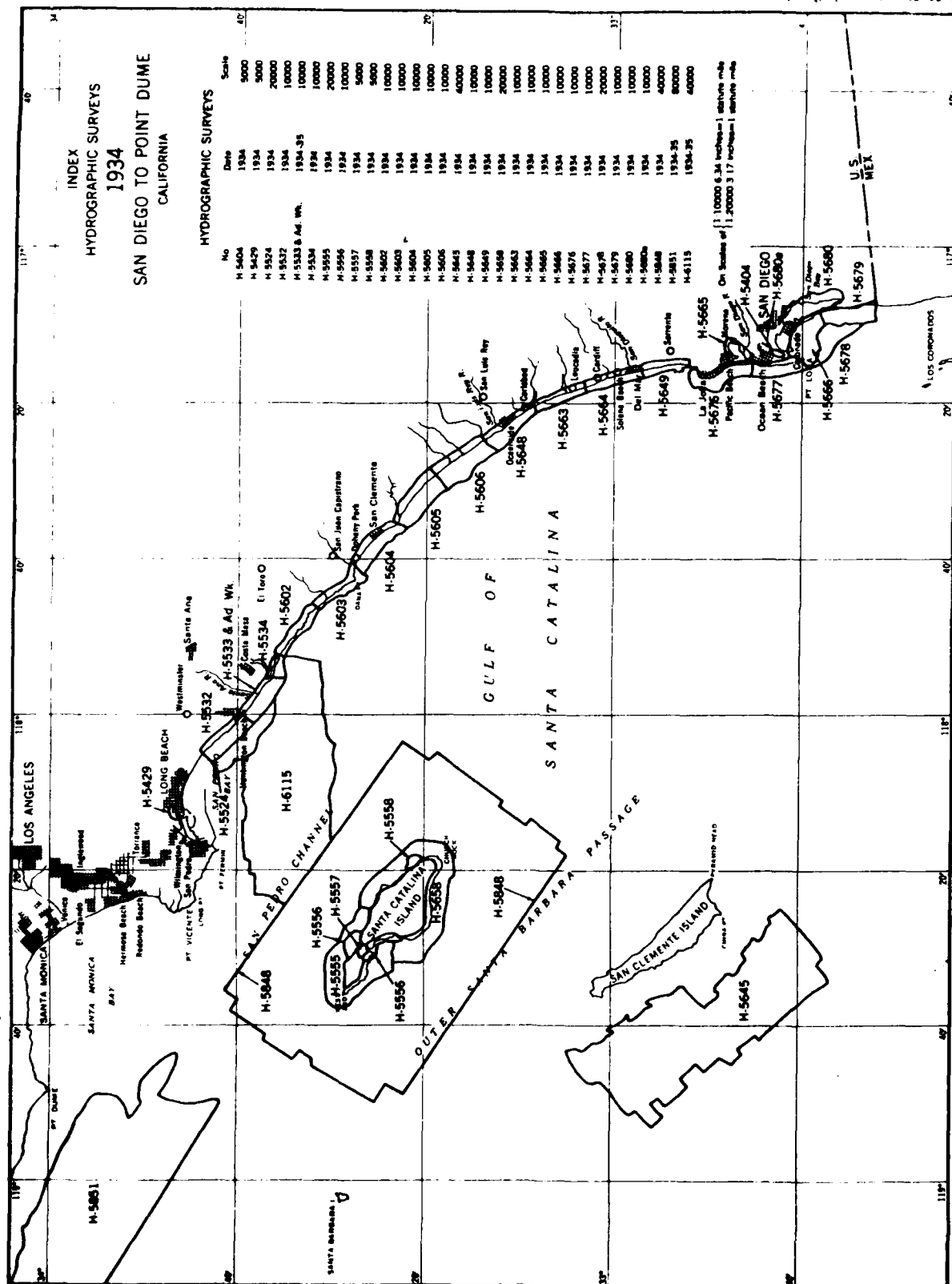
FIGURE 2 (CONT'D)

## Hydrographic Index No. 92 f



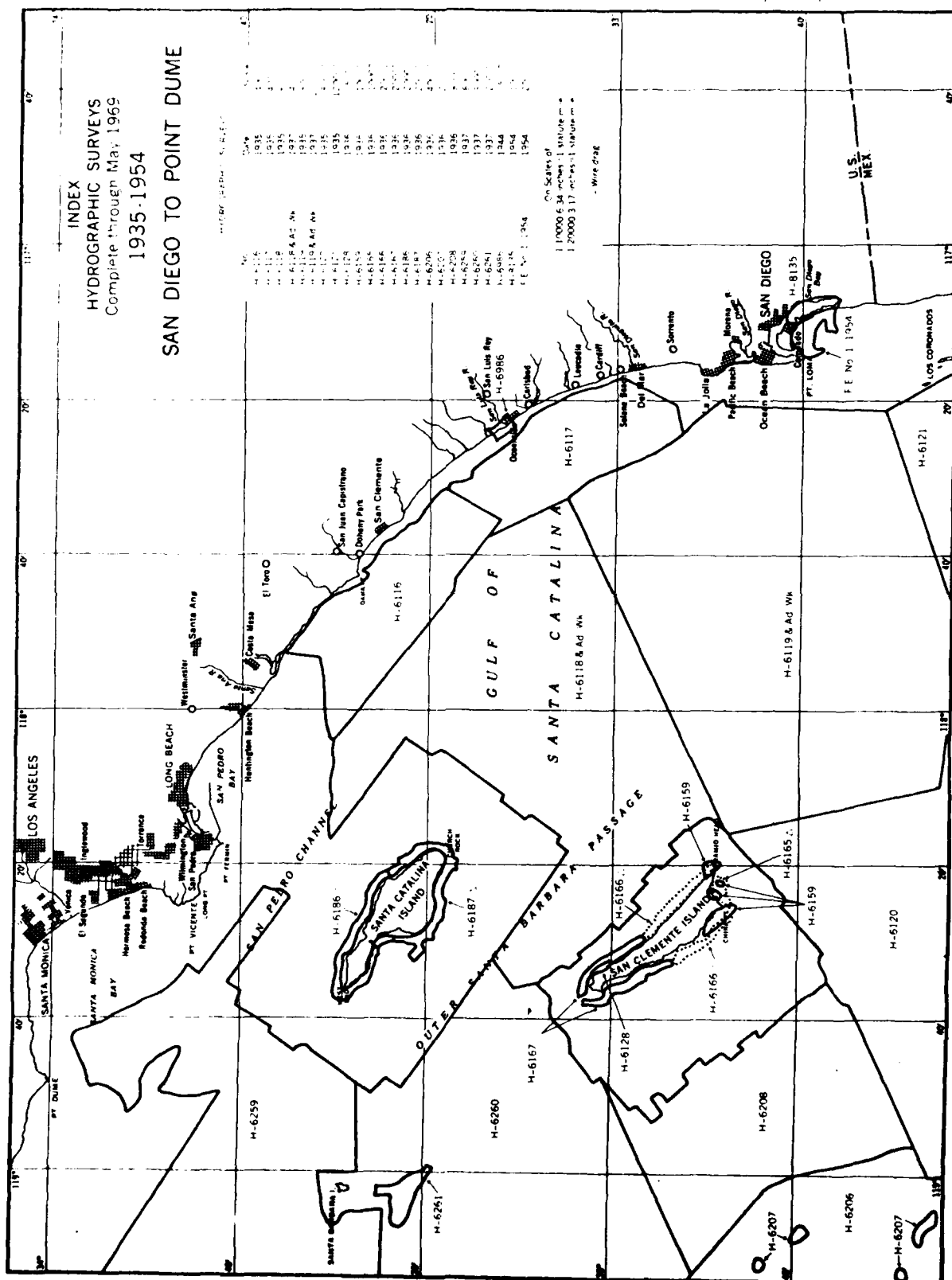






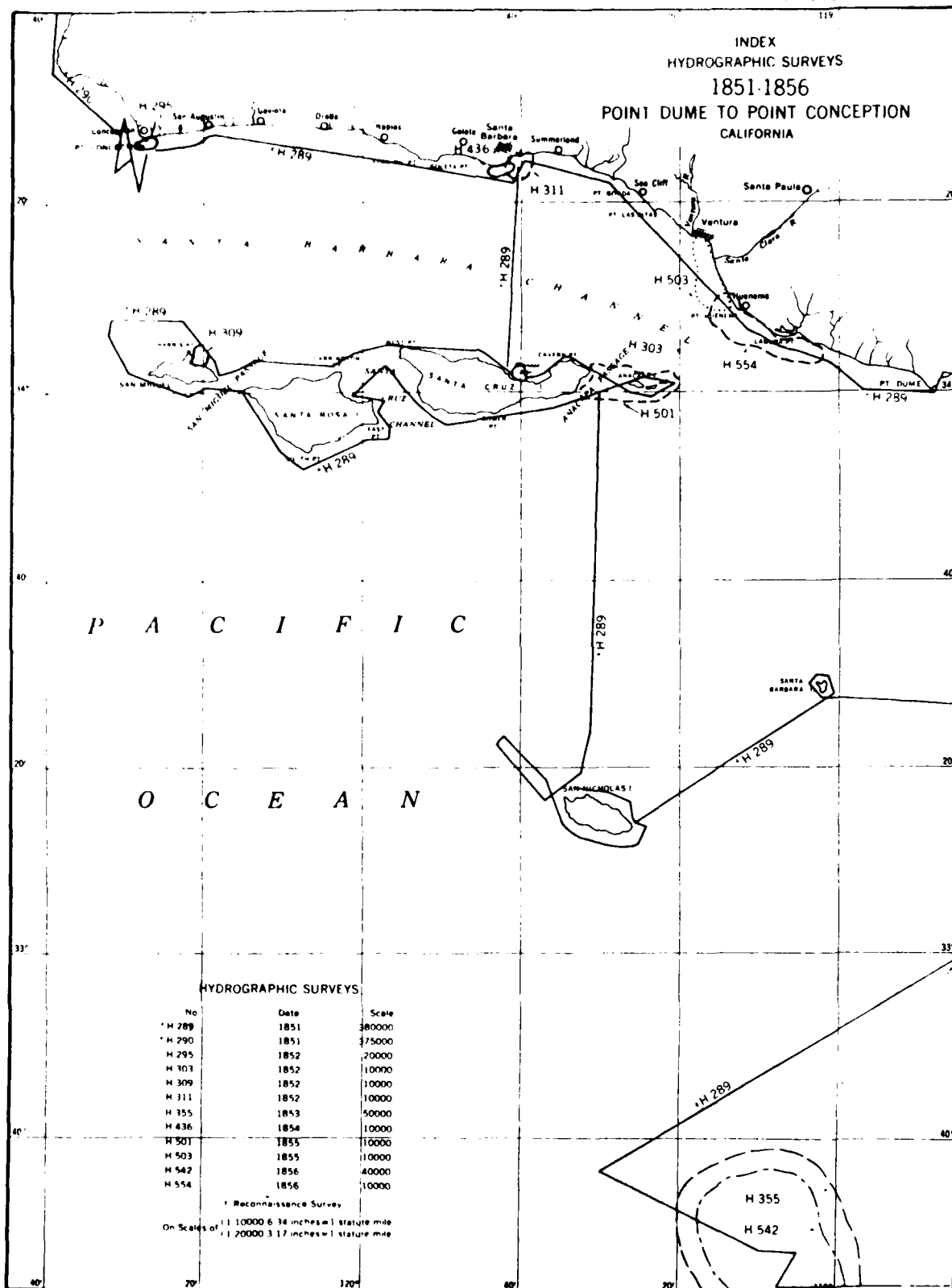
DEPARTMENT OF COMMERCE  
Environmental Science Services Administration  
U.S. Coast and Geodetic Survey  
Washington, D.C.

Hydrographic Index No. 117



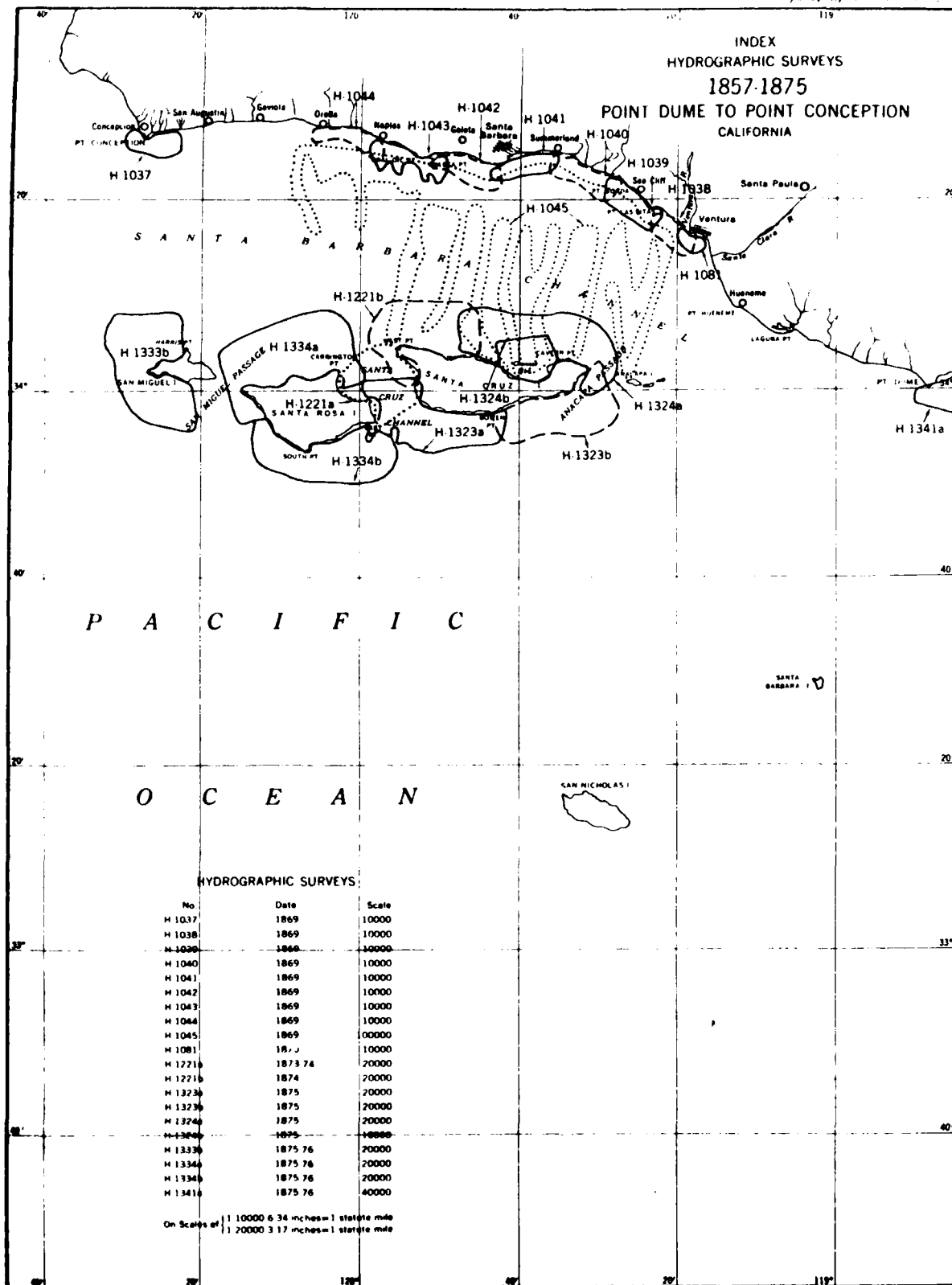
## Hydrographic index 140 921





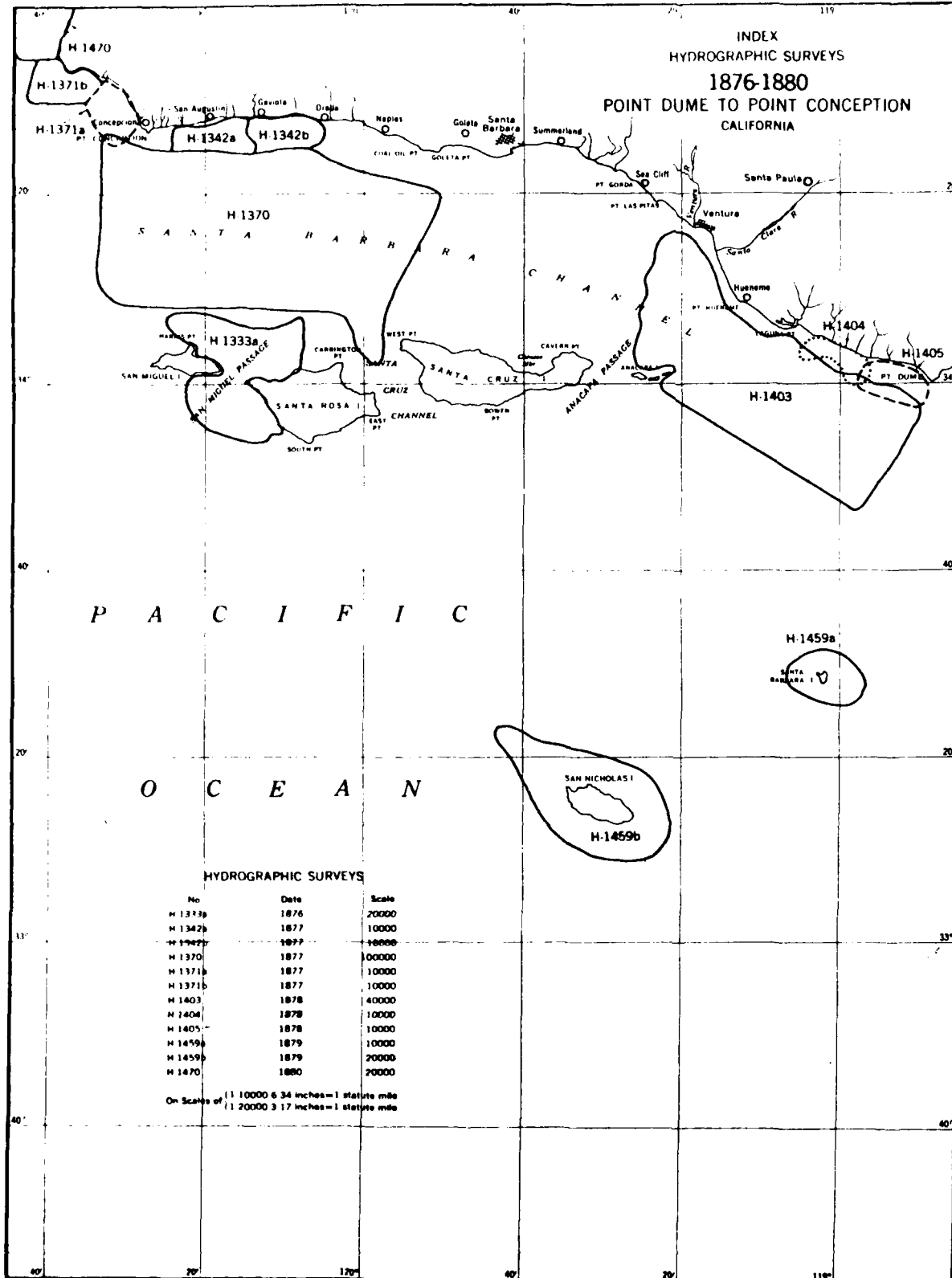
U S DEPARTMENT OF COMMERCE  
Coast and Geodetic Survey  
Washington, D C

Hydrographic Index No. 944



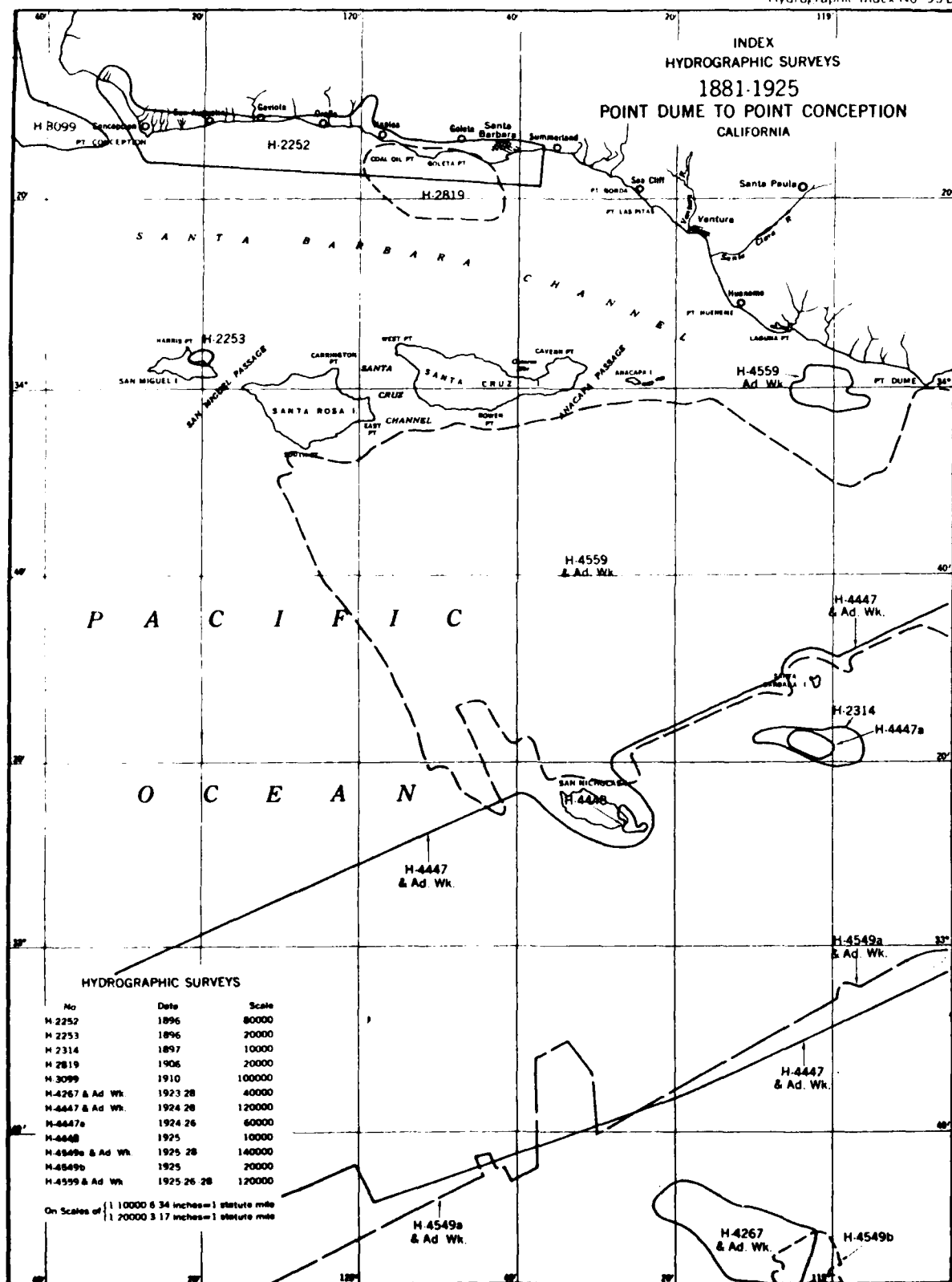
U.S. DEPARTMENT OF COMMERCE  
Coast and Geodetic Survey  
Washington, D.C.

Hydrographic Index No. 93 C

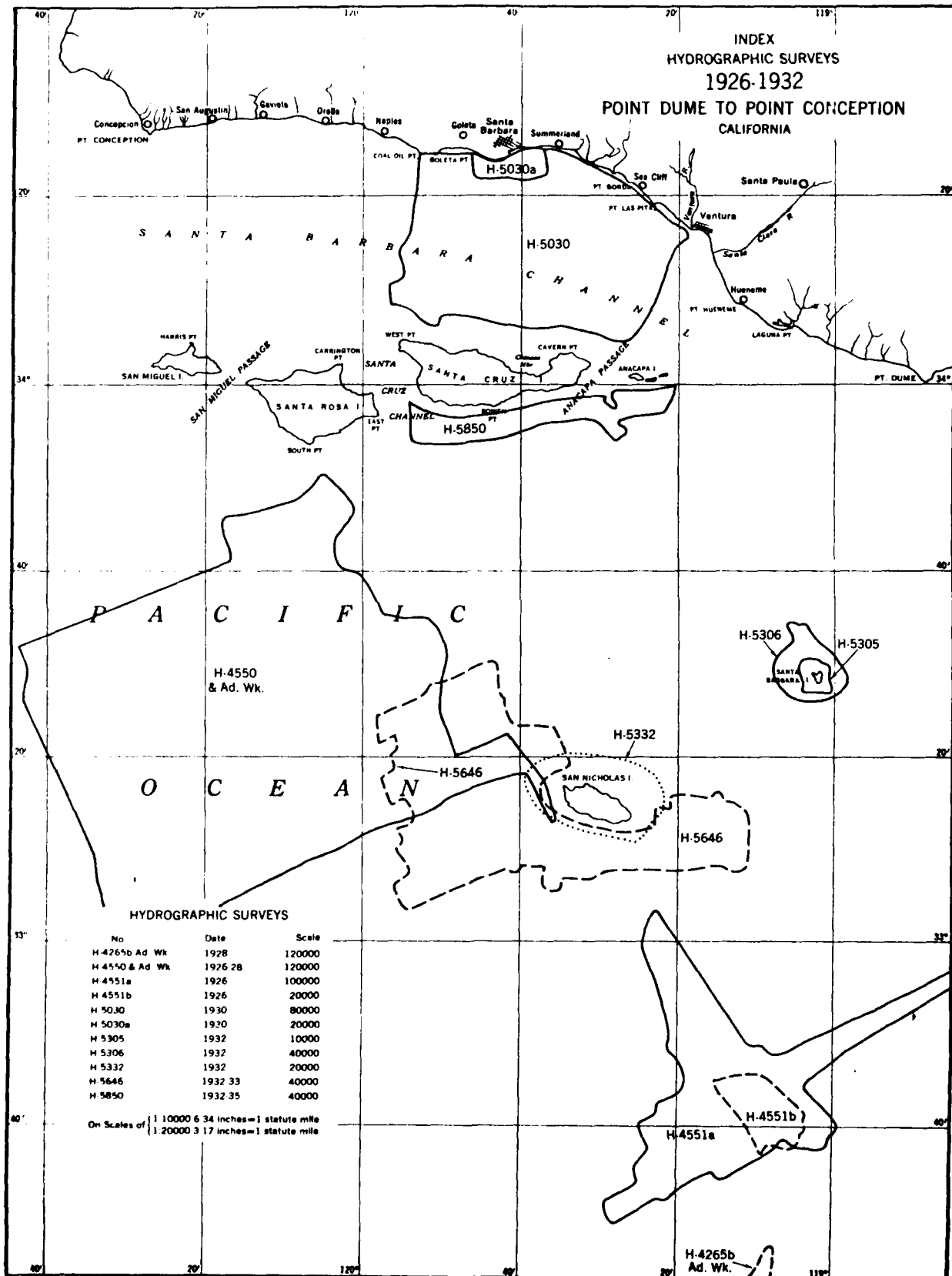


U. S. DEPARTMENT OF COMMERCE  
Coast and Geodetic Survey  
Washington, D. C.

Hydrographic Index No 93D

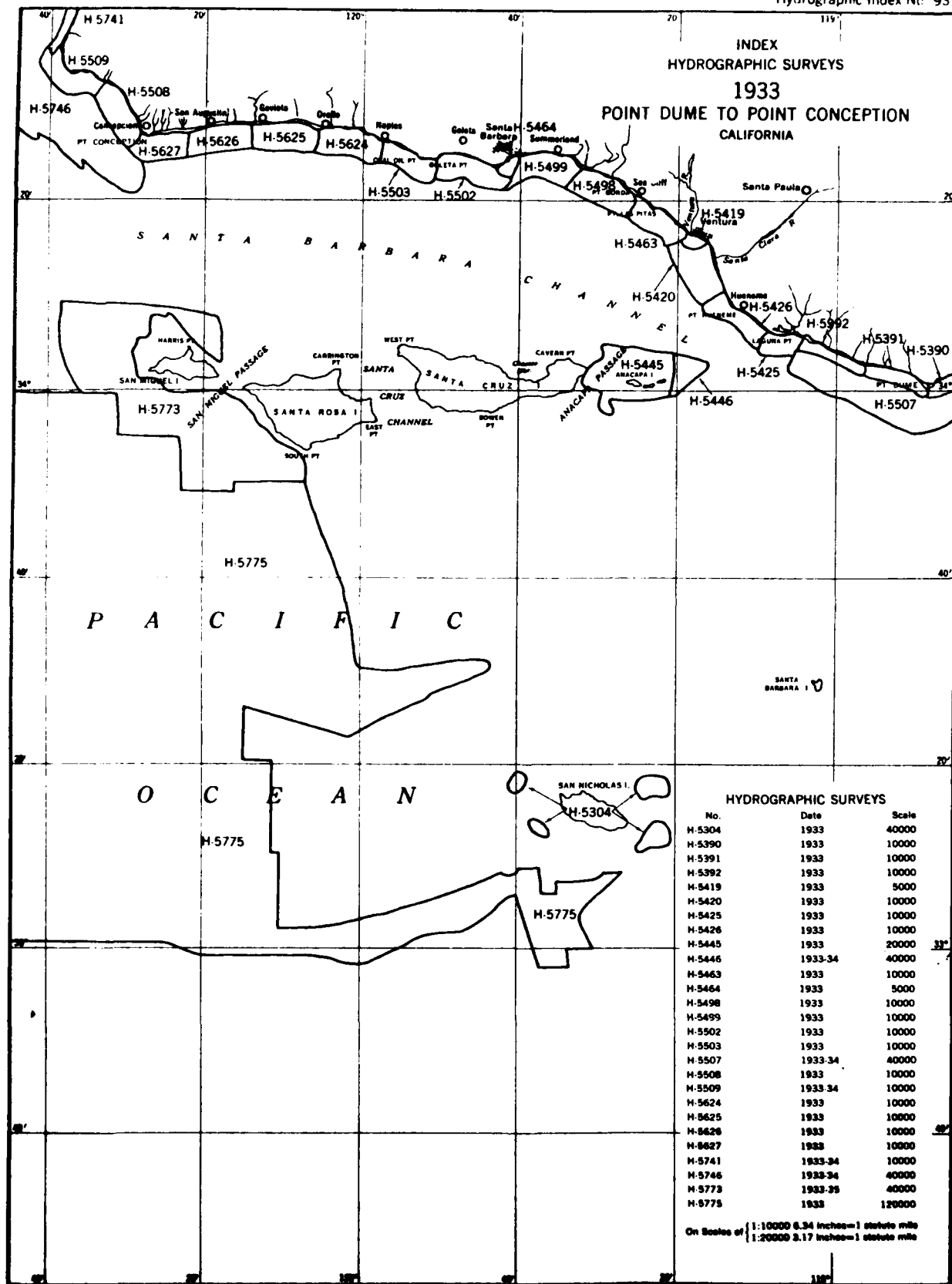






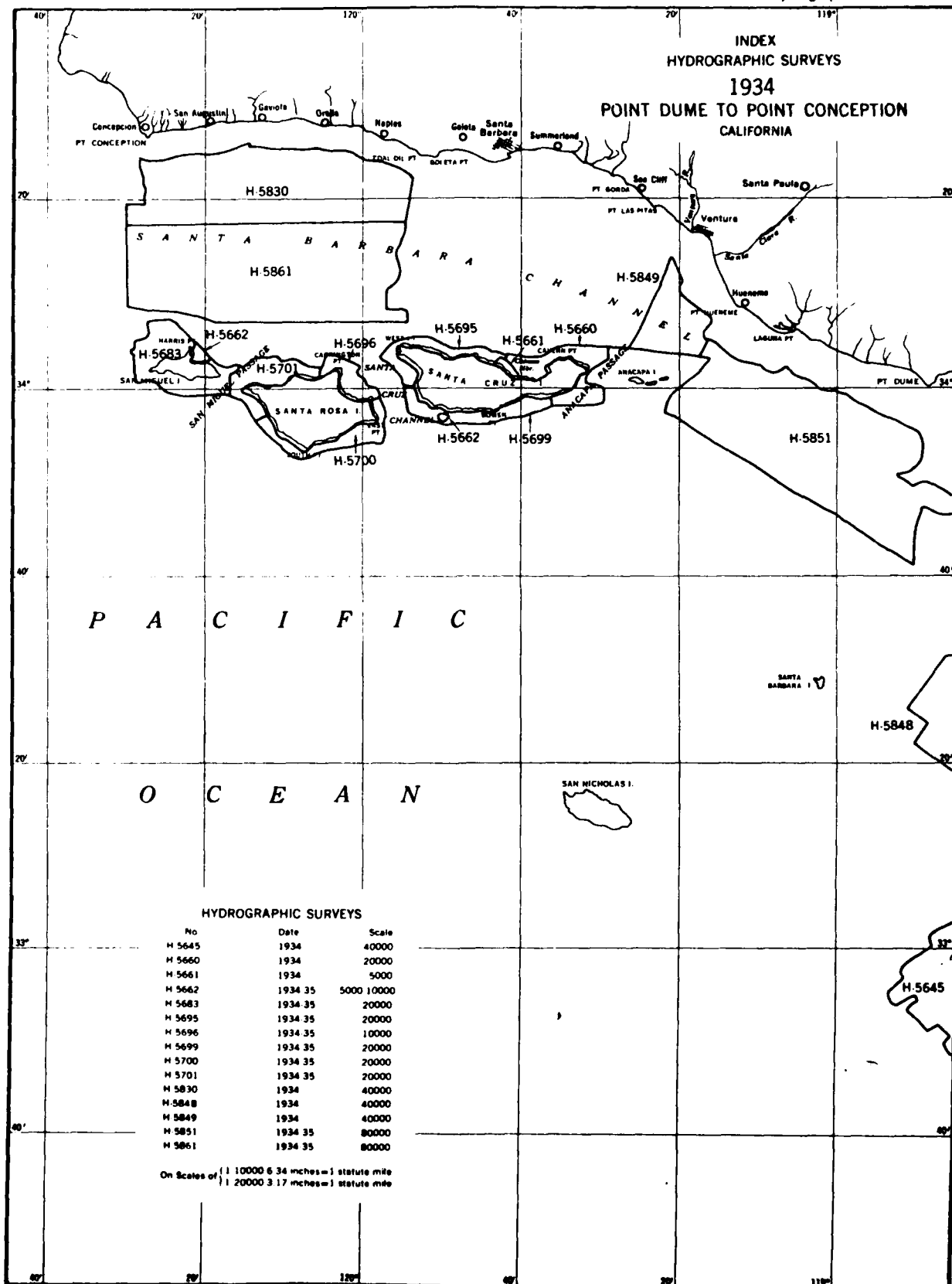
U.S. DEPARTMENT OF COMMERCE  
Coast and Geodetic Survey  
Washington, D. C.

Hydrographic Index No. 931



U.S. DEPARTMENT OF COMMERCE  
Coast and Geodetic Survey  
Washington, D.C.

Hydrographic Index No 93 G



DEPARTMENT OF COMMERCE  
Environmental Science Services Administration  
U.S. Coast and Geodetic Survey  
Washington, D.C.

Hydrographic Index No. 9334

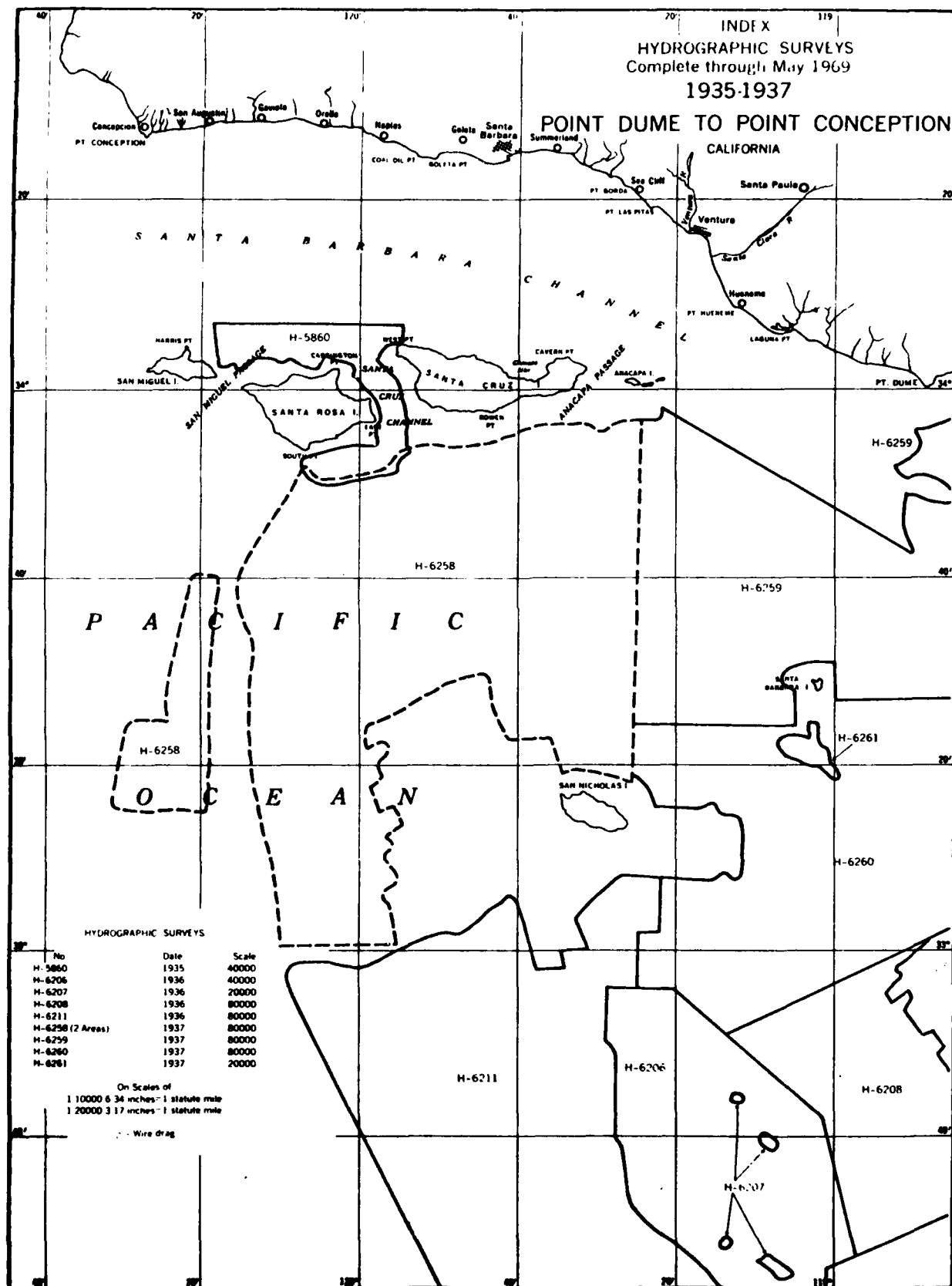


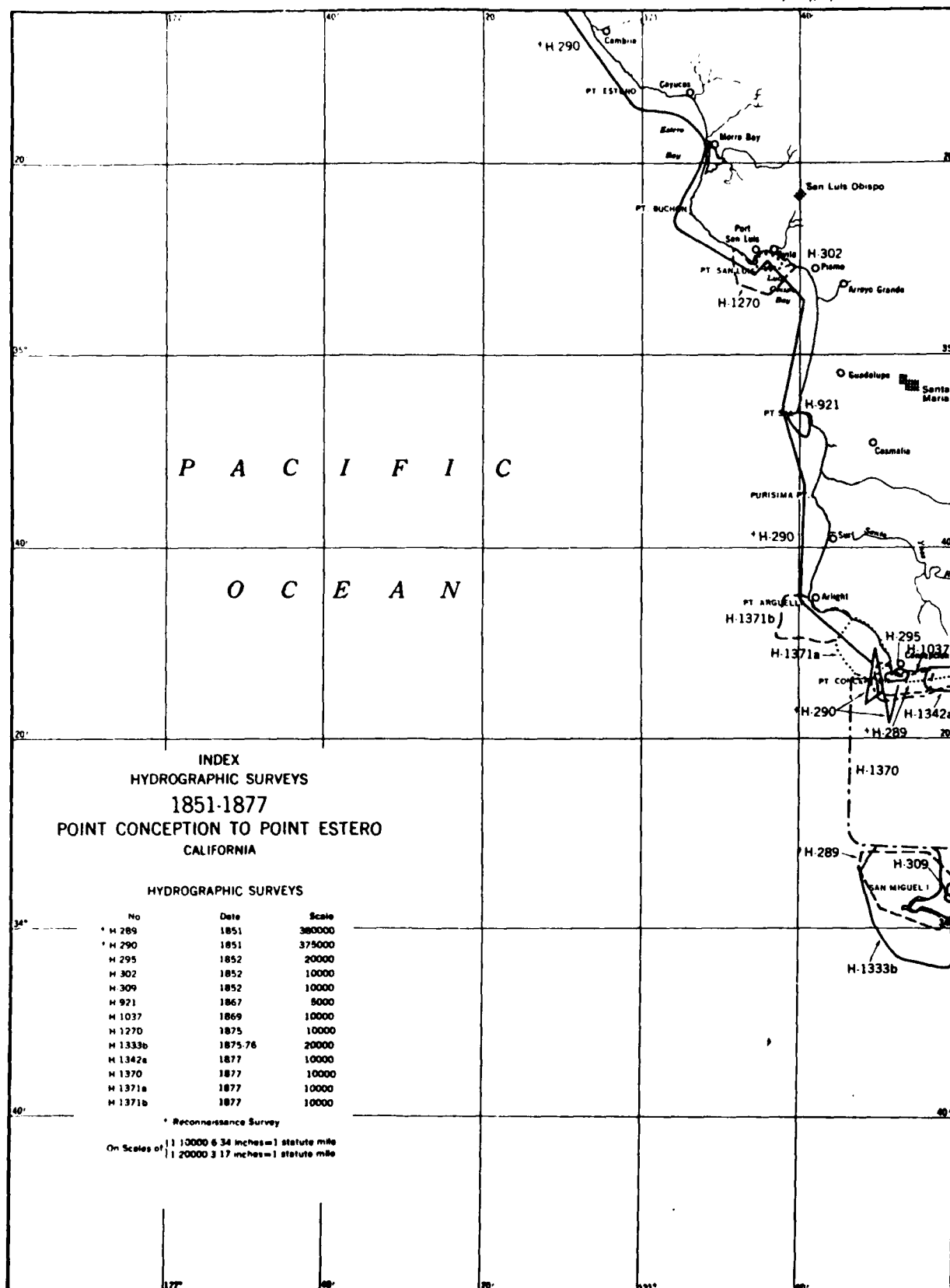
FIGURE 3 (CONT'D)

## Hydrographic Index No. 931



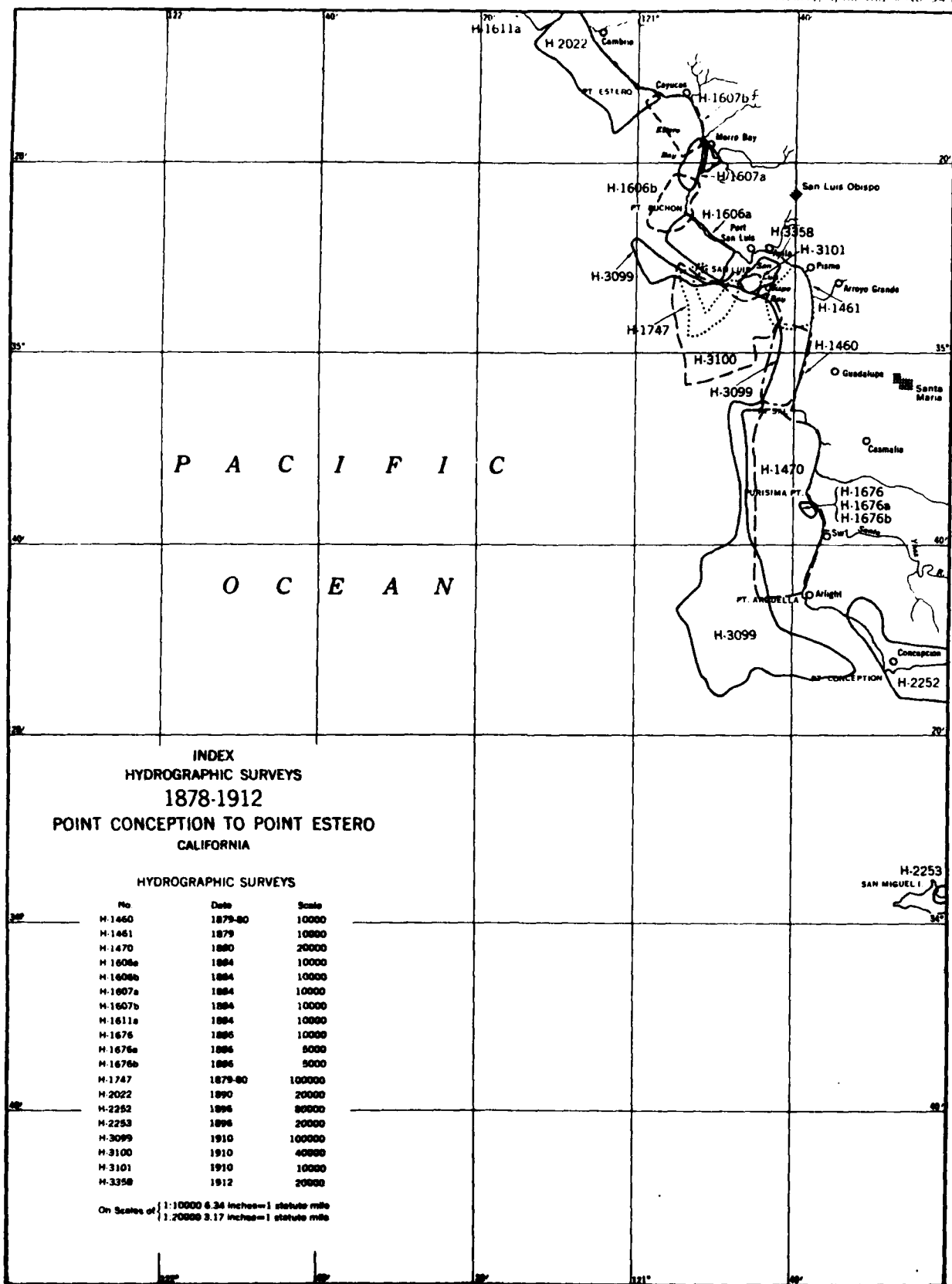
FIGURE 3 (CONT'D)

## Hydrographic Index No 94 A



U.S. DEPARTMENT OF COMMERCE  
Coast and Geodetic Survey  
Washington, D.C.

Hydrographic Index No. 94 B



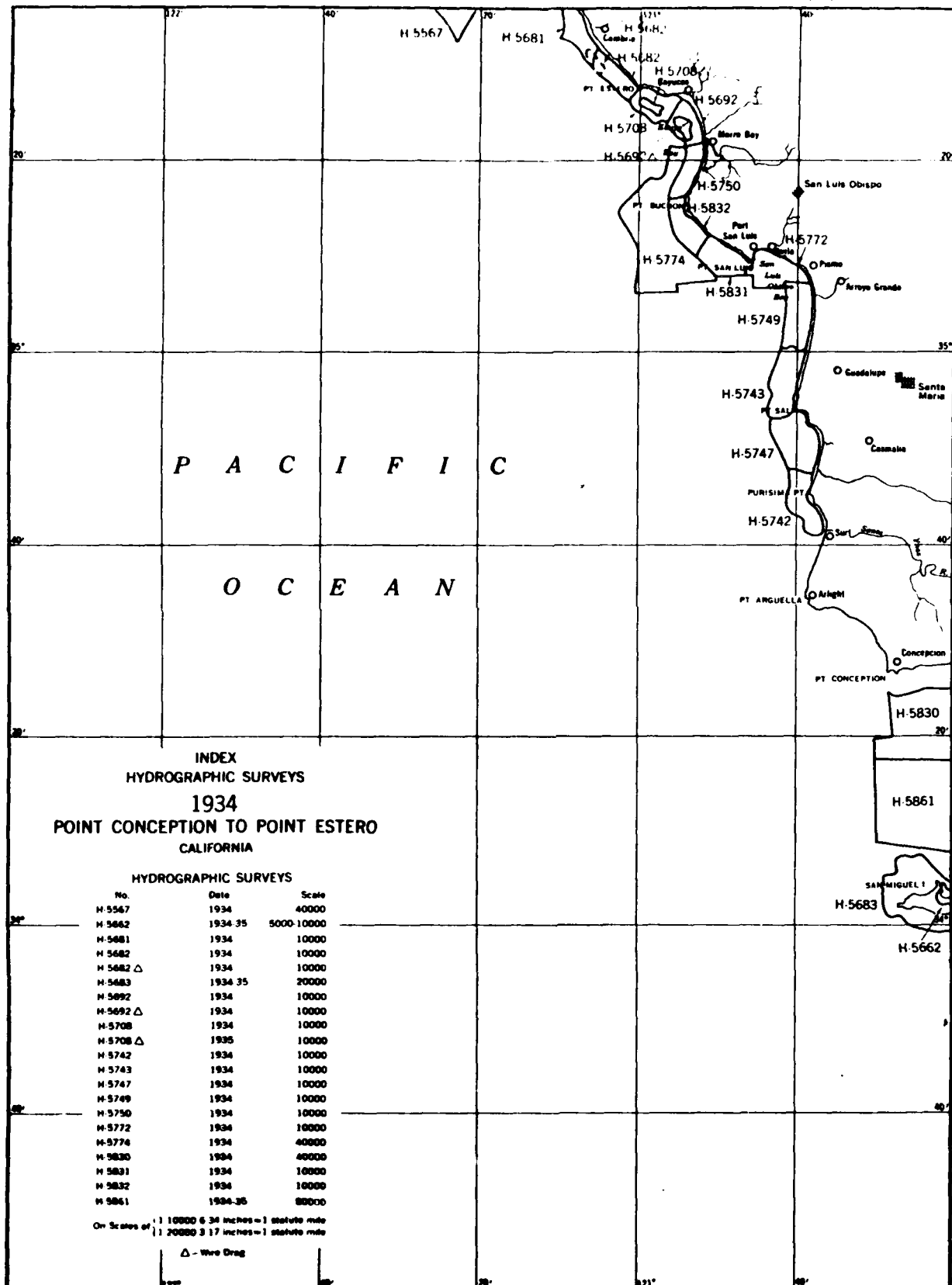
## Hydrographic Index No 94 C





U.S. DEPARTMENT OF COMMERCE  
Coast and Geodetic Survey  
Washington, D.C.

Hydrographic Index No. 94 D



DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Ocean Survey  
Rockville, Maryland

Hydrographic Index No. 1121

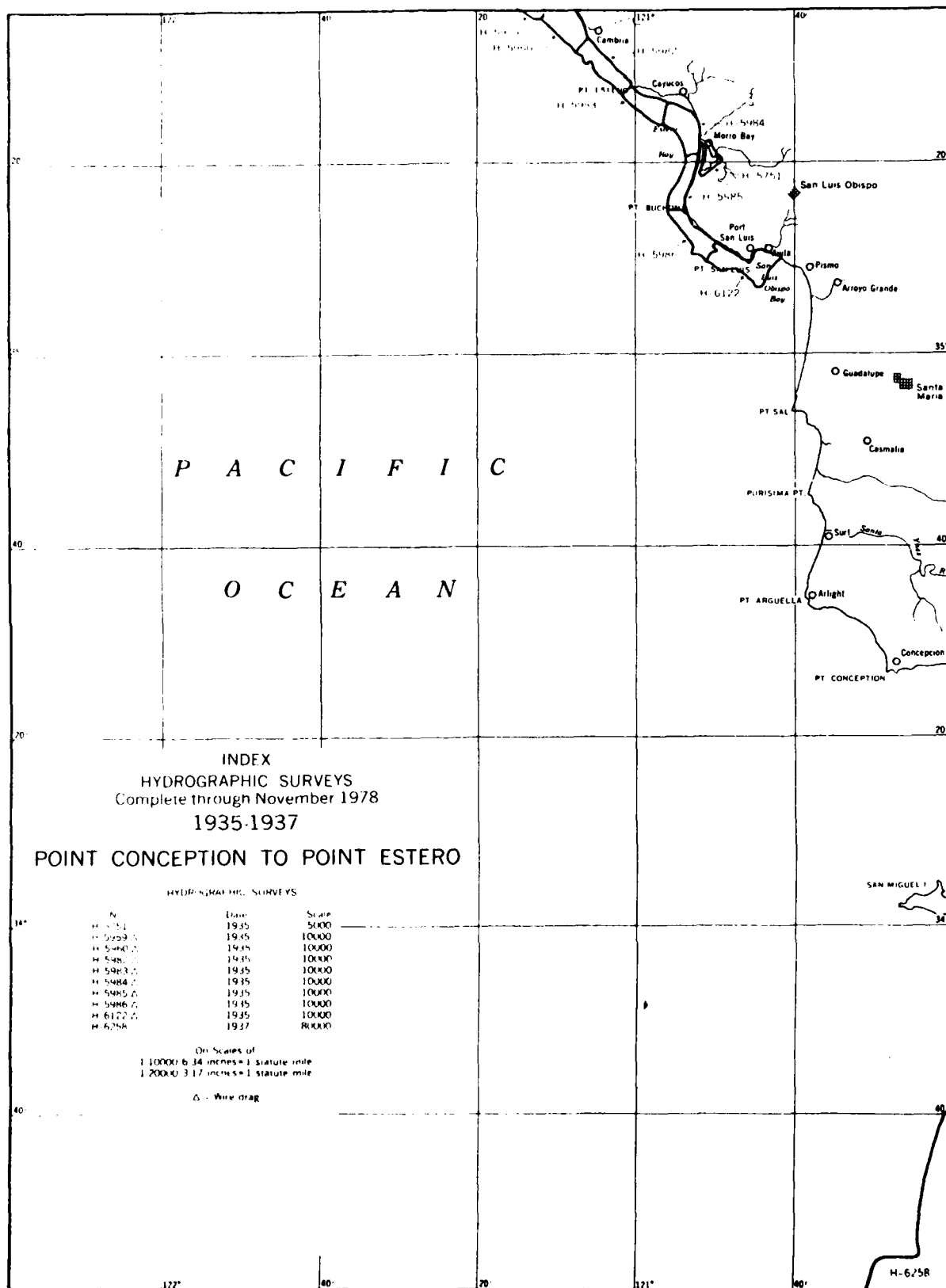
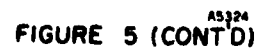
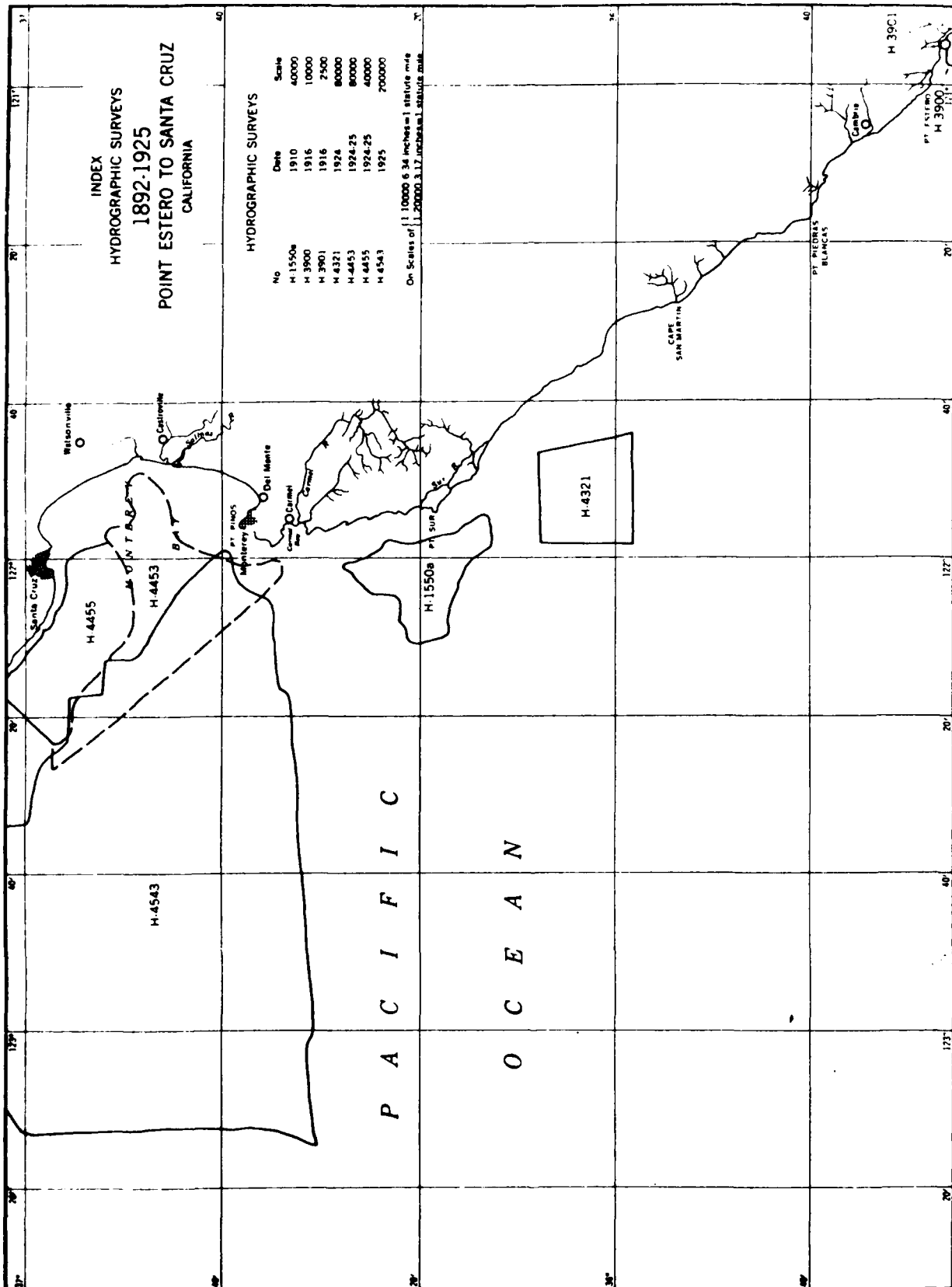


FIGURE 4 (CONT'D)



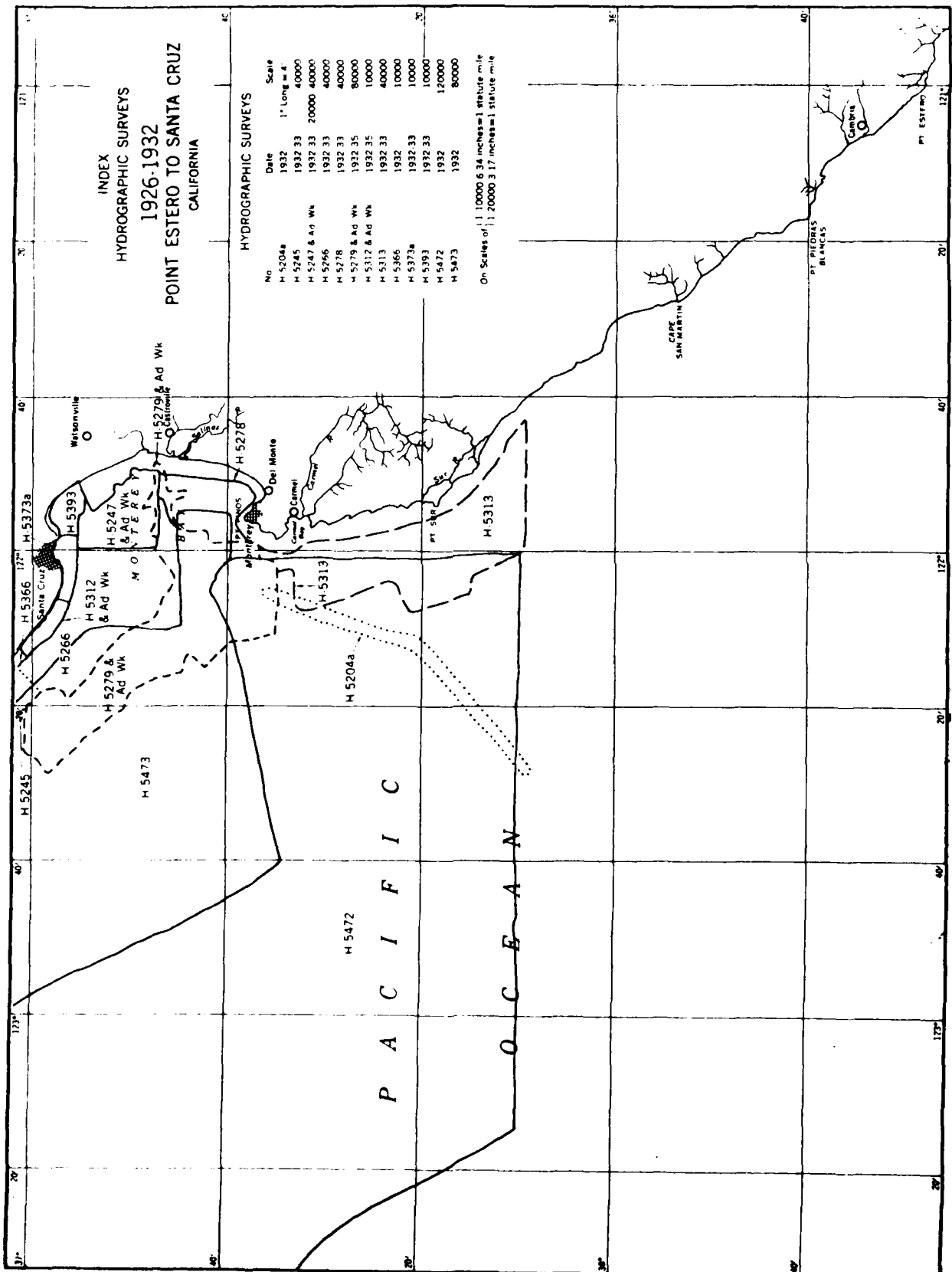


## Hydrographic Index No 91 C



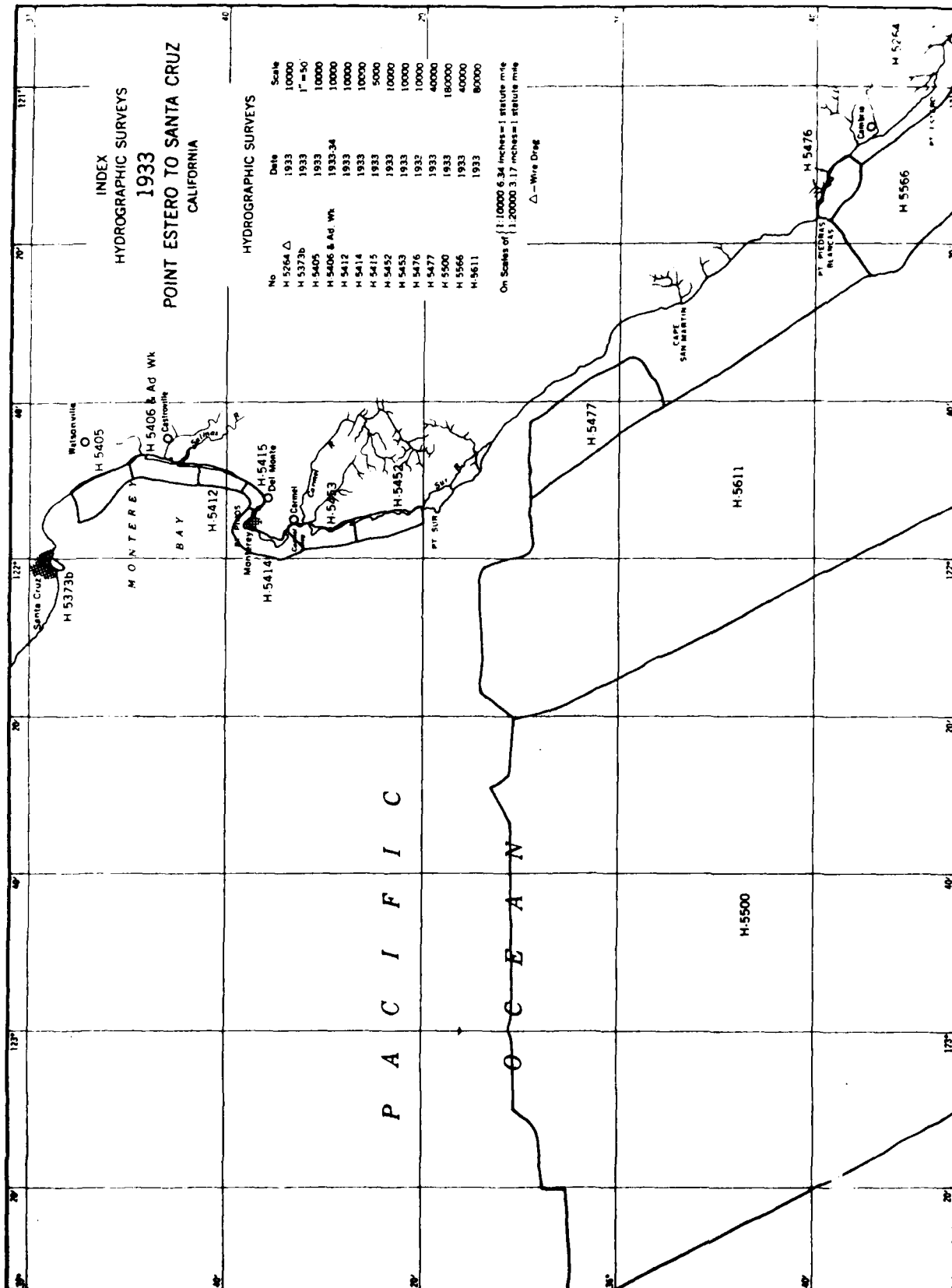
U S DEPARTMENT OF COMMERCE  
Coast and Geodetic Survey  
Washington, D C.

Hydrographic Index No. 9510



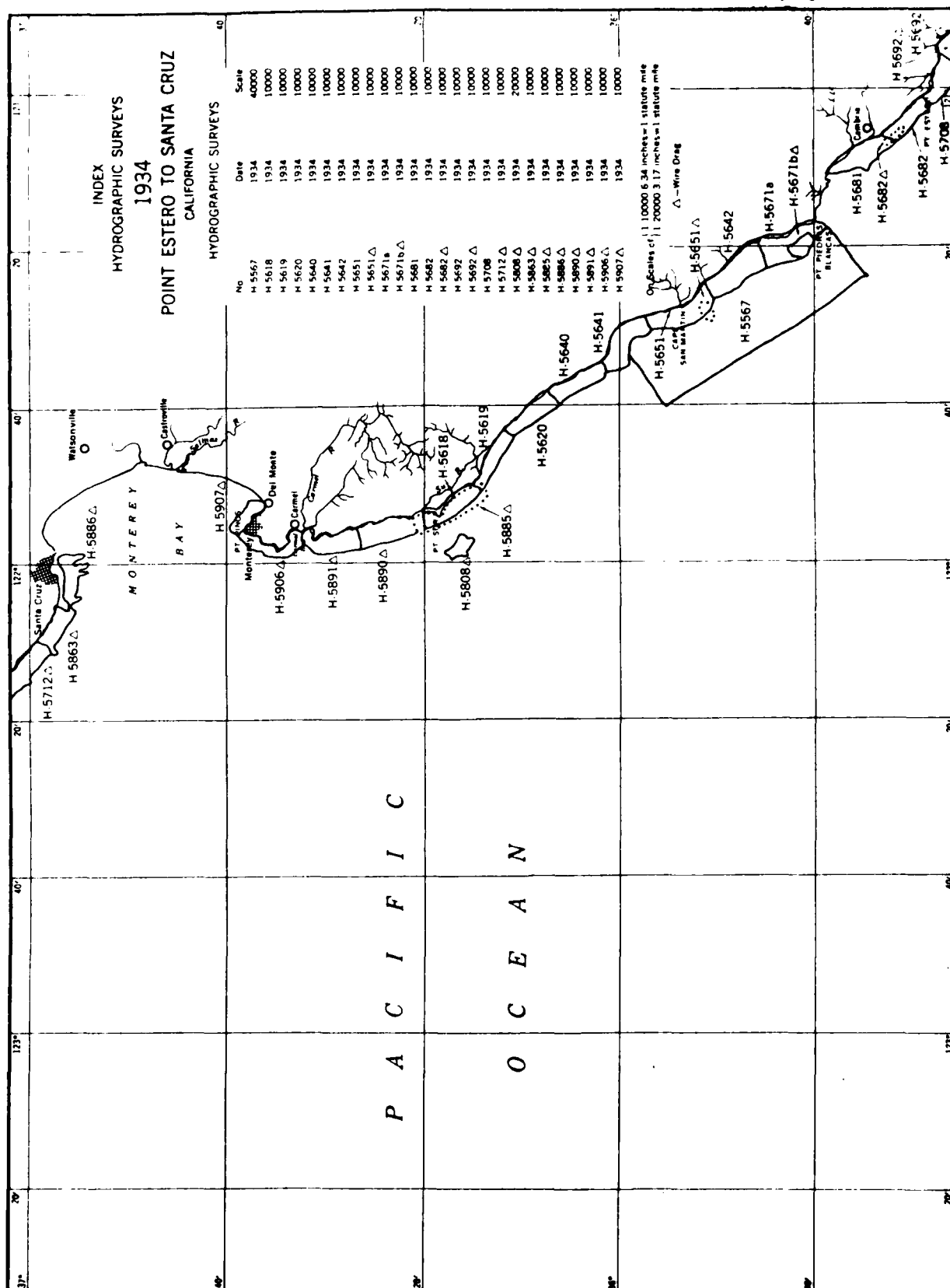
U.S. DEPARTMENT OF COMMERCE  
Coast and Geodetic Survey  
Washington, D.C.

Hydrographic Index No. 951



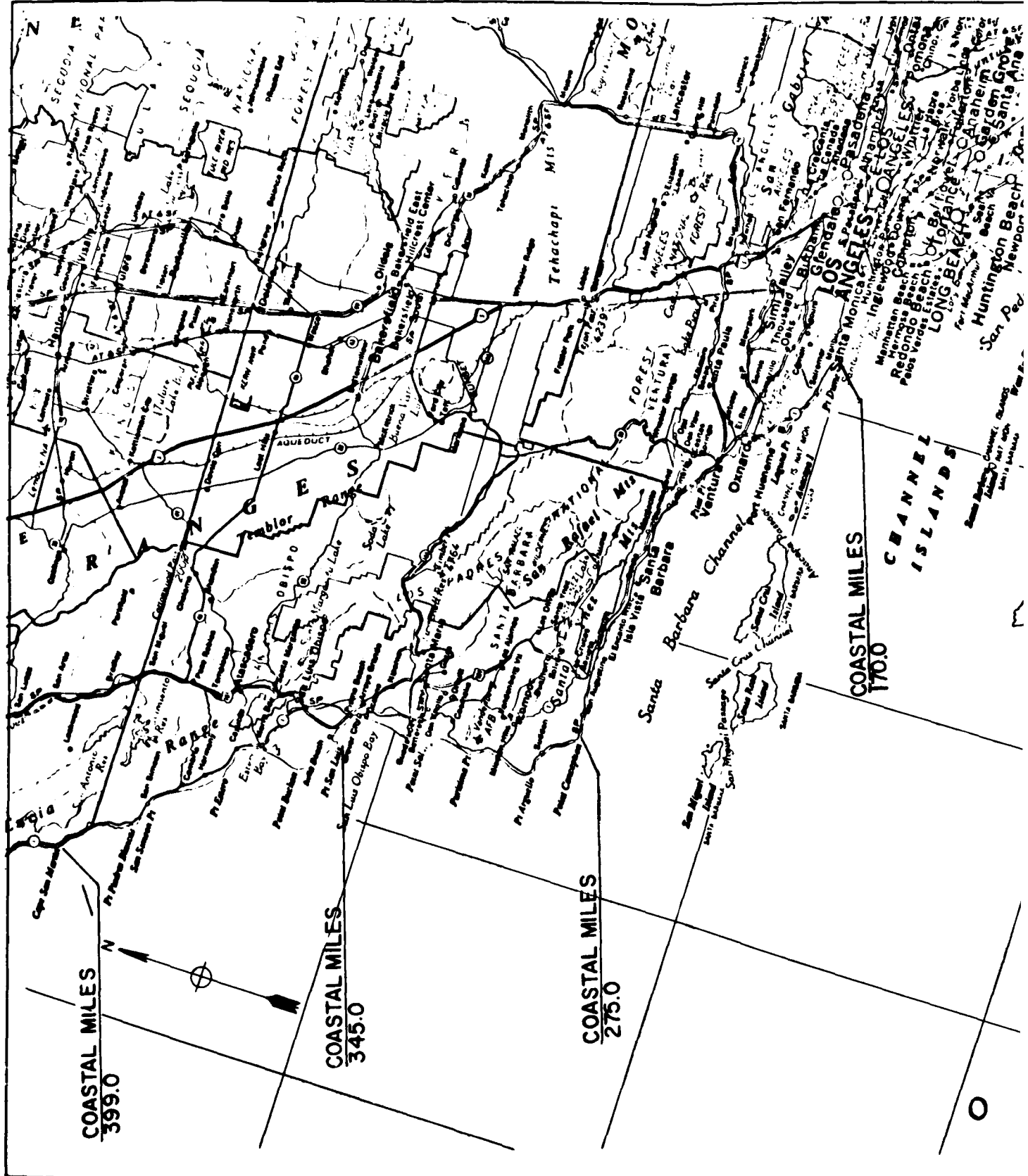
U.S. DEPARTMENT OF COMMERCE  
Coast and Geodetic Survey  
Washington, D.C.

Hydrographic Index No. 951

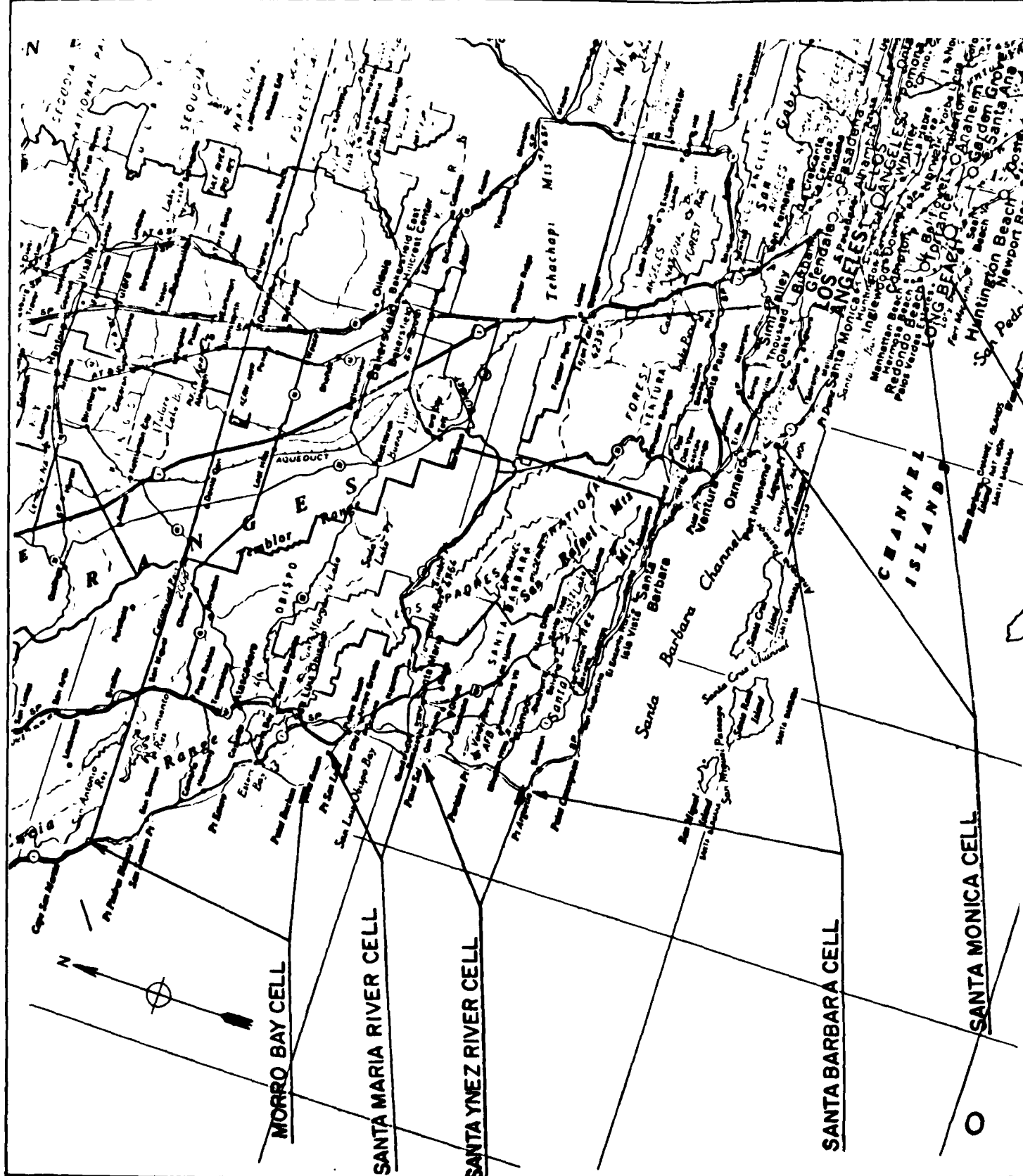




[illegible]



U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT





DATE	COASTAL MILES							
	10	20	30	40	50	60	70	80
1920 JAN								
1937 AUG SEP								
1938 JUN JUL								
1944 JUN JUL AUG								
1946 FEB MAR								
1948 APR								
1950 JAN								
1951 JAN MAY NOV								
1952 MAR AUG SEP								
1953 JAN FEB APR JUN								
1954 JAN MAR/APR MAY JUN AUG DEC								
1955 SEP OCT								
1956 AUG								
1957 MAY AUG NOV								
1958 MAY NOV								
1959 JAN SEP OCT NOV								

TOTAL MILES  
50 60 70 80 90 100 110 120 130

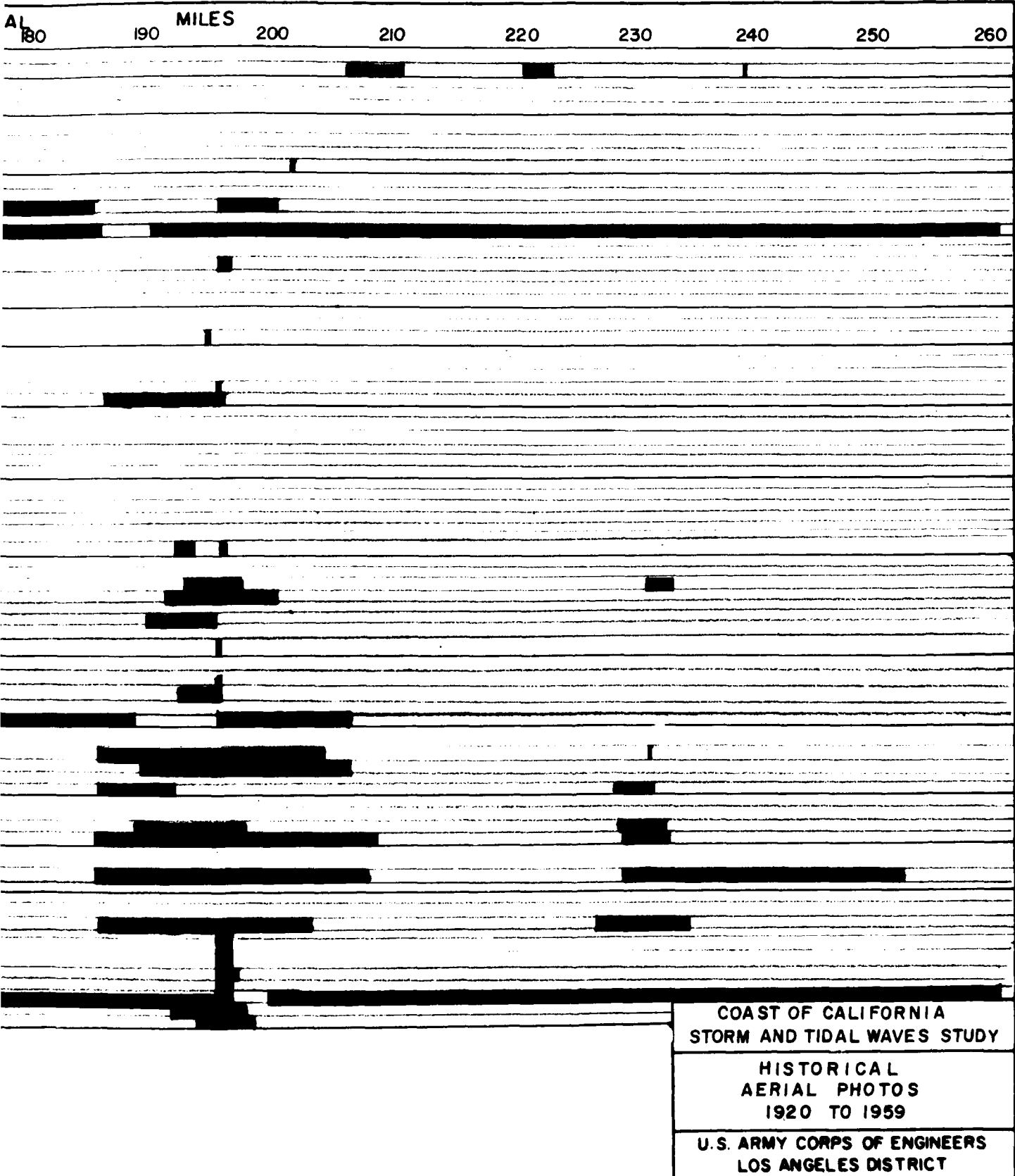
COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

HISTORICAL  
AERIAL PHOTOS  
1920 TO 1959

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

[illegible]





U.S. ARMY ENGINEER DISTRICT

DATE	COASTAL					MILES			
	270	280	290	300	310	320	330	340	
1920 JAN FEB									
1931 JAN									
1937 JUL AUG SEP									
1938 JUN JUL AUG									
1948 APR									
1952 MAR AUG SEP DEC									
1956 DEC									
1957 NOV									
1958 MAY									
1959 JAN SEP									

MILES

310

320

330

340

350

360

370

380

390

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

HISTORICAL  
AERIAL PHOTOS  
1920 TO 1959

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

SILVER STRAND CELL

DATE	DESCRIPTION	
July & August 1937	Sta. 2+05.76 to 726+89.59 Zuniga Jetty to Mexican Boundary Refer to Beach Erosion Control Report San Diego County, 1 March 1960	
Sept. & Oct. 1946	Sta. 2+05.76 to 726+89.59 Refer to Beach Erosion Control Report San Diego County, 1 March 1960 (For Profiles)	
Feb. & March 1954	Sta. 2+05.76 to 726+89.59 Refer to: Beach Erosion Control Report San Diego County, 1 March 1960	
Dec. 1956	Sta. 2+05.76 to 726+89.59 Refer to: Beach Erosion Control Report San Diego County, 1 March 1960	
July 1957	Imperial Beach 485+00 to 566+00	
April 1962	Imperial Beach 536+12 to 566+00	
July & August 1962	Imperial Beach 485 + 00 to 577 + 74.29	
April & May 1965	Imperial Beach 707 + 00 to 726 + 89.59	
August & Sept. 1967	Zuniga to Mexican Boundary 2 + 05.76 to 726 + 89.8	
March 1969	Imperial Beach 673 + 00 to 746 + 89.59 (2000' below Mexican Boundary)	
March 1973	Imperial Beach 477 + 00 to 623 + 79.14	
June 1975	Imperial Beach 515 + 00 to 657 + 00	
March 1978	Imperial Beach -41 + 00 to 42 + 00 Pier is 0 + 00	South = - North = +
7-13 Feb 1979	Imperial Beach -41 + 00 to 42 + 00 Pier is 0 + 00	South = - North = +

OVER STRAND CELL

	SCALE	DEPTH	FILE NUMBER	SOURCE
Boundary County, 1 March 1960	Profiles	-32'	3316-3320 (5 sheets)	COE
County, 1 March 1960 (For Profiles)	Plan view 1" = 200	-32'	A-260 (7 sheets)	COE
County, 1 March 1960	Profiles	-32'	3316-3320 (5 sheets)	COE
County, 1 March 1960	Profiles	-32'	3316-3320	COE
		-14 -15 -32	Tabs only	COE
		-36	Tabs only	COE
	Plan view 1" = 400	-38	C-732	COE
	Plan view 1" = 400	-40	C-704, C-705	COE
	1" = 500	-36	C-738, C-739, C-740, C-741 C-742	COE
Boundary)	1" = 500	-38	File # C-754	COE
	1" = 500	-38	File # D-745, D-746	COE
		-62	Tabs only	COE
Is 0 + 00 South = - North = +		-32	Tabs only	COE
Is 0 + 00 South = - North = +	1" = 400	-32	E 725	COE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

SILVER STRAND CELL

DATE	DESCRIPTION	
20-21 Feb 1979	Imperial Beach -41 + 00 to 42 + 00	Pier is 0 + 00 South = - North = +
Jan. 1984	Imperial Beach -25 + 00 to 25 + 50	Pier is 0 + 00 South = - North = +
May 1984	Silver Strand (Coronado Area) 65 + 20.51 to 281 + 20.51	
Aug. 1984	Imperial Beach -25 + 00 to 42 + 00	Pier is 0 + 00 South = - North = +
1889 1959	Plan sheets showing contours from Zuniga Jetty to	
1934 1967	Mexican Boundary for years listed to left	
1937		
1946		
1956		

SILVER STRAND CELL

	SCALE	DEPTH	FILE NUMBER	SOURCE
er is 0 + 00 South = - North = +		-32	Tabs only	COE
er is 0 + 00 South = - North = +		-32	Tabs only	COE
		-50	Tabs only	COE
er is 0 + 00 South = - North = +		-32	Tabs only	COE
y to			File # C-789, C-790, C-791	COE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

MISSION BEACH CELL

DATE	DESCRIPTION
July 1940 Sept. 1948 June 1949 May 1951 April 1957	Pacific Beach Area Sta. 41 + 24.50 to Sta. 100 + 92.02 Ref: Beach Erosion Control Report San Diego, CA. 1 Mar 1960 Cooperative Study
July 1940 June 1949 April 1951 April 1957	Mission Beach Area Sta. 106 + 92.03 to 190 + 92.03 Ref: Beach Erosion Control Report Cooperative Study 1 Mar 1960
April 1951 March 1954 July 1955 April 1957	Ocean Beach Area Sta. 211 + 30.86 to 233 + 84.79 Ref: Beach Erosion Control Report Cooperative Study, 1 Mar 1960 Note: Sta. 233 + 84.79 was not run in 1954
Feb. 1955 July 1955 April 1957	Ocean Beach Area Sta 210 + 30.86 to 235 + 73.79
Feb. 1966	Ocean Beach Sta. 210 + 30.86 to 235 + 75.60
July 1970	Ocean Beach Sta. 210 + 30.86 to 235 + 75.60
June 1972	Pacific Beach to Ocean Beach Sta. 0 + 00 to 246 + 06.01
Feb. 1977	Mission Beach to Ocean Beach 134 + 92.03 to 245 + 04.38



MISSION BEACH CELL

	SCALE	DEPTH	FILE NUMBER	SOURCE
Ref: Beach Erosion Control Report San Diego, CA. 1 Mar 1960 Cooperative Study	Profiles	-50	#3311	COE
Study 1 Mar 1960	Profiles	-50	# 3312, 3313 (2 sheets)	COE
Study, 1 Mar 1960	Profiles	-50	# 3314, 3315 (2 sheets)	COE
	Profiles	-50	# B-754	COE
	Plan view 1" = 200'	-36	# C-702	COE
	Plan view 1" = 200'	-36	# C-779	COE
	1" = 200'	-36	D-736, D-737, D-738 (3 sheets)	COE
		-60	Have Tabs only	COE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

OCEANSIDE CELL

DATE	DESCRIPTION
1942-1945	Scripps Inst. at Pier (taken daily)
1951-1981	La Jolla Shores (taken at varying intervals)
1975-1977	Torrey Pines (taken weekly)
1977-1981	Torrey Pines (taken less frequent than weekly)
1978-1981	Marine St. in La Jolla (taken on monthly basis)
Feb-Apr 1934 April 1957	Profiles Soledad Valley - Torrey Pines Ranges A,B,C,D,E, & F Taken from Beach erosion. Cooperative Study 1 Mar.1960
July 1934 ; Oct. 1950 ;	Apr. 1958 Oct. 1959 2 sheets showing 6' contours made in Nov. 1970
Feb. 1952 ; Apr. 1956 ;	May 1956 Nov. 1968; Jan. 1969 From San Margarita River to Batiquitos Lagoon. For years listed to left
Feb-Apr 1934 April 1957	Del Mar area Ranges G, H, I, J, K. Taken from Beach erosion. Cooperative Study 1 Mar 1960
Feb-Apr 1934 April 1957	CARDIFF - SOLANA Beach area Taken from Beach erosion. Cooperative Study 1 Mar. 1960
Feb-Apr 1934 April 1957	Leucadia - Encinitas Area Taken from Beach erosion S-52 to S-706 Cooperative Study 1 Mar 1960
Oct. 1950 ; Apr. 1956 Feb. 1952 Aug. 1955 Mar. 1956	Carlsbad Area Taken from Beach erosion S-22 to S-48 Cooperative Study 1 Mar 1960
Feb. 1952	Oceanside Carlsbad S-36 to S-46 = 2000' Sta. S-36 to N-10 = 1000' Sta. N 34 to S-48 N-10 to N-34 = 2000' Sta.
Oct. 1950 Feb. 1952 Apr. 1956 Oct. 1959	Oceanside Area (Profiles for 1950,) Cooperative Study 1 Mar 1960 S-13 to S-20 (4 sheets) (1952, 1956 only) Taken from Beach Erosion Coop. Repo Sheet 1, N-34 to N-4; Sheet 2, N-3 to S-5; Sheet 3, S-6 to S-12

OCEANSIDE CELL

	INTERVALS	DEPTH	SCALE	FILE	CONTROL
					Scripps
					Scripps
					Scripps
)					Scripps
s)					Scripps
osion. Cooperative Study 1 Mar. 1960	1500'±	-40	Profiles	3310	COFE
contours					USC & GS COFE
River to Batiquitos Lagoon. left	6' contour	-30	1=10,000	C-787 C-788	Oceanside CMC
on. Cooperative Study 1 Mar 1960	1500'±	-40	Profiles	3309	USC & GS COFE (LA)
1 Mar. 1960	1000'± 4000'±	-50	Profiles	3308	USC & GS COFE (LA)
erosion 1 Mar 1960	2000'±	-50	Profiles	3307	USC & GS COFE (LA)
960	1000'±	-50	Profiles	3304 3305	COFE
00' Sta. S-36 to N-10 = 1000' Sta.	1000'± 2000'±	-40	1" = 600	C-710 C-711	COFE
00' Sta.					
0,) Cooperative Study 1 Mar 1960 Taken from Beach Erosion Coop. Report	1000'± 2000'±	-38	Profiles	(4 sheets) 3300 3301 3302, 3303	COFE 11th NAVY Dist.
Sheet 3, S-6 to S-12					

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

OCEANSIDE CELL

DATE	DESCRIPTION	
May 1934	San Onofre Area	Taken from Beach erosion
Feb. 1958	R-2=408+12 ; R-3=429+07 R-5=456+81	Cooperative Study 1 Mar 1960
		R-6= 480+49      R-8= 531+14 R-7= 507+36
Oct. 1959	Oceanside Area Sta. 0+00 to N-8; S-4+00 to S-32+00; S-40+00 to S-44+00; Ranges A,B,C,D, & E	
Jan. 1961	Oceanside Area S-2 to S-12	
Feb. 1961	Oceanside Area S-5 to S-7	
July 1961	Oceanside Area S 1+00 to S-8A	
Sept. 1961	Oceanside Area S-5 to S-20	
Apr. 1962		
Apr. 1963	Contours S-2 to S-20	
Mar. 1962	Oceanside Area S-8 to S-16	
Apr. 1962	Oceanside Area S-2 to S-20	
Nov. 1962	Oceanside Area S-5 to S-13	
Feb. 1963	Oceanside Area S-5A to S-20	
Apr. 1963	Oceanside Area N-1 to S-15 ;	S-14 to S-3 = S-15 to N-20 =
April 1963	Oceanside Area S-2A to S-20	S-2A to S-13 = S-16 to S-20 =
Oct. 1963	Oceanside Area N-2 to S-9A	0+00 to N-2 S-5 to S-9A

OCEANSIDE CELL

			INTERVALS	DEPTH	SCALE	FILE	CONTROL
osion Mar 1960	R-6= 480+49 R-7= 507+36	R-8= 531+14	2000'±	-36	Profiles		USC & GS COFE (LA)
o S-44+00;	Ranges A,B,C,D, & E		400'± & 1000'±	-36	Tabs Only		COFE (LA)
			500'±	-40	Tabs Only		COFE (LA)
			1000'±	-40	Tabs Only		COFE (LA)
			200' 500', 1000'	-36	1"=300	B-750	COFE
			1000'	-40	Tabs Only		COFE
				-38	Contours	B-735 to B-738	COFE
			500' 1000'	-40	Tabs Only		COFE
			500' 1000'	-38	1"=300	(2 sheets) B-731, B-732	COFE
			500' 1000'	-36		Tabs Only	COFE
			500' 1000'	-38		Tabs Only	COFE
	S-14 to S-3 =		200'			C-731, C-732	
	S-15 to N-20 =		500'	-38	1"=300	C-733	COFE
	S-2A to S-13 =		500'			B-732, B-733	
	S-16 to S-20 =		1000'	-38	1"=300	B-734	COFE
	0+00 to N-2		1000'				
	S-5 to S-9A		500'	-38	1"=400	B-748	COFE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

OCEANSIDE CELL

DATE	DESCRIPTION
Jan. 1964	Oceanside Area S 14+00 to S-3200 Harbor Ent.
May 1964	Oceanside Area N 20+00 to S-300+00
May 1965	Oceanside Area N 100+00 to S 300+00
Sept. 1965	Oceanside Area S-32+50 to S-8
Mar. 1966	Oceanside Area S-3 to S-14
May 1966	Oceanside Area S-3 to S-14
Mar. 1966	Oceanside Area S-3 to S-14
Feb. 1970	Dana Point to Doheny Beach Sta. 0+00 to Sta. 99+99
Feb. 1971	Dana Point to Doheny Beach Sta. 0+00 to Sta. 100+00
Mar. April 1972	Dana Point to San Clemente Sta. 10+00 to Sta. 162+10
April 1973	Dana Point to Capistrano Sta. 0+00 to 211+52.83
1886-89, 1955, 1968, 1934, 1949, 1969	Mussel Cove to San Mateo Point Shoreline and Offshore change Countours MHW to -30
May, June 1934 Jul, 1949, Apr. 1955	

OCEANSIDE CELL

		INTERVALS	DEPTH	SCALE	FILE	CONTROL
		-22			Tab's Only	COFE
	S-9 to S-26	1000'				
(S-9 to S-9)	S-15 to N-20	500'			B-746	
	S-14 to S-3	200'	-41	1"=400	B-747	COFE
	S-20 to S-300	1000'			B-758	
	N-20 to S-20	500'	-48	1"=400	B-759, B-760	COFE
			-38		Tab's Only	COFE
		1000'	-36	1"=500	C-746 C-747	COFE
			-40		Tab's Only	COFE
		1000'	-36	1"=500	C-746 C-747	COFE
99+99		500'±	-38	1"=300	B-996-70-2	COFE
100+00		500'	-38	1"=300	B-996-71-2	COFE
to Sta. 162+10		500'±	-38	1"=300	B-996-72-3	COFE
to 211+52.83		500'±	-38		Tab's Only	COFE
-30			MHW to		C-992	USC&GS
			-30	Contours	C-993	COFE
					COFE (LA)	R.L. Patterson

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

OCEANSIDE CELL

DATE	DESCRIPTION
Mar. 1956, Jan. 1962, Aug. 1962, July 1968, April 1969	San Juan Creek Delta Study 0+00 to 24+00
1875-89, 1926 1934, 1937, 1949 1955	Newport Bay to San Mateo Point Profiles from Range: A, B, C, D, E, F to Range: 363+97.99 (R.L. Patterson)
1875-89, 1926 1934, 1937, 1949	Newport Bay to San Mateo Point Shore Line & Offshore Changes (Contours) (R.L. Patterson)
June 1976	Oceanside Area N 40+00 to S 50+00
Sept. 1976	Oceanside Area N 40+00 to S 50+00
Mar. 1977	Oceanside Area N 40+00 to S 50+00
June 1977	Oceanside Area N 40+00 to S 50+00
Jan. & Feb. 1981	Oceanside Area S 26+00 to S 600+00
Mar. 1981	Oceanside Area S 20+00 to N 536+61.52
Sept. 1981	Oceanside Area S 15+00 to S 46+00
June & July 1982	Oceanside Area S 583+54.17 to N 638+00
June July 1983	Oceanside Area N 40+00 to S 220+00



OCEANSIDE CELL

		INTERVALS	DEPTH	SCALE	FILE	CONTROL
A, B, C, D, E, F		400'	-10	Profiles	C9-55	USC & GS R.L. Patterson
	(R.L. Patterson)	2000'	Some Ranges -30 to -130		(7 sheets) 963A-969A	USC & GS Orange Co.
	(R.L. Patterson)	Contour 6'	MHW to -30		(4 sheets) 959A to 962A	USC & GS Orange Co.
		500'	48		Tabs Only	COFE
		500'	-48		Tabs Only	COFE
		500'	-48		Tabs Only	COFE
		500'	-48	1"=400	C-760-776	COFE
		1000'	-48		Tabs Only	COFE
		500'	-48		Tabs Only	COFE
		100' to 200'	-42	1"=400	E-764	COFE
		1000' to 5000'	-50	1"=400	E-775- E-783	COFE
		500'	-55		Tabs Only	COFE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

OCEANSIDE CELL

DATE	DESCRIPTION	
Aug. 1983	Oceanside Area N 53+00 to S 236+00	
Mar. 1984	Oceanside Area N 15+00 to S 31+00	Sand Bypass Study
Oct. 1984	Oceanside Area N 15+00 to S 31+00	Sand Bypass Study
April May 1952	Dana Point Area & Doheny Area	Sta. 0+00E to 72+50'E Sta. 0+00E to 32+50'W Fan Range: A,B,C,D
Aug. 1962	Doheny Beach Area 0+00 to 70+00	Sta. 0+00 to 20+00 Sta. 20+00 to 30+00 ; Sta. 30+00 to 70+00
April 1964	Dana Point before Beach fill Doheny Area	0+00 to 77+50 Fan Ranges: A,B,C,D
Jan. & Feb. 1965	Dana Point to North End of San Clemente	Sta. 0+00 to Sta. 172+80.00
Sept. 1965	Doheny Beach	Sta. 20+00 to Sta. 70+00
July 1968	Dana Point to San Clemente	Sta. 0+00 to Sta. 363+97.99
April 1969	Dana Point to San Clemente	Sta. 0+00 to Sta. 206+97
Aug. 1966	Oceanside Area S 0+00 to S 300+00	0+00 to S 4 S-4 to S-30
Oct. 1968	Oceanside Area N 17 to S 125	
Nov. 1968	Oceanside Area S 26+00 to S 80+00	S-26+00 to S S 40+00 to S
June 1969	Oceanside Area S 26+00 to S 90+00	S-26+00 to S- S-30+00 to S
Jan. 1970	Oceanside Area N 15+00 to S 30+00	

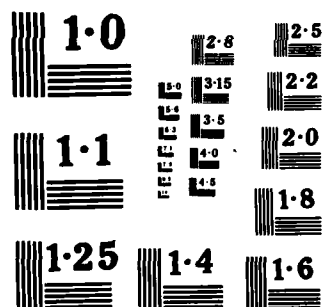
**UNCLASSIFIED**

COAST OF CALIFORNIA STORM AND TIDAL WAVES STUDY  
SOUTHERN CALIFORNIA COAST..(U) ARMY ENGINEER DISTRICT  
LOS ANGELES CA COASTAL RESOURCES BRANC.. FEB 86  
CCSTUS-86-2 F/G 8/8

22

NL

END  
DATE  
FILMED  
5-86  
DT:



OCEANSIDE CELL

	INTERVALS	DEPTH	SCALE	FILE	CONTROL
	500'	-55	1"=400'	E-95- E-956	COFE
dy	100'	-26	1"=300	E-986	COFE
dy	100'	-26	1"=200		COFE
Fan Range: A,B,C,D	250' to 500'	-389			COFE
20+00 30+00 ; Sta. 30+00 to 70+00	500'	-30			COFE
an Ranges: A,B,C,D	200' 500'	-400	1"=200	B-970	COFE
172+80.00	500'	-38	1"=1000	Profiles B-930,B-934 B-971	COFE
70+00	500'	-38	1"=200	B-944	COFE
363+97.99	500'±	-36	1"=300'	B-996-68-7 to B-999-68-8	COFE
206+97	500'±	-38	1"=300	B-996-69-4 B-997-69-4	COFE
0+00 to S 4 S-4 to S-30	500' 1000'	-46	1"=500	C-717 C-718,C-719	COFE
		-40	1"=200	C-756-68-11 C-757-68-11	COFE
S-26+00 to S 40+00 S 40+00 to S 80+00	500' 1000'	-46		Tabb Only	COFE
S-26+00 to S-30+00 S-30+00 to S90+00	400' 500'±	-40	1"=400'	C-760-69-1	COFE
	500'±	-60	1"=400'	C-760-70-1	COFE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

## BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

OCEANSIDE CELL

DATE	DESCRIPTION
Feb. 1970	Oceanside Area N 15+00 to S 26+00
Oct. 1970	Carlsbad State Beach Area S 22 to S 63
Oct. 1970	Solana Beach Area & Cardiff Area Ranges (San Elijo & Cardiff State Beaches N,O,P,Q,R,S,T,U.)
Oct. 1970	San Onofre to Encinitas Area N 339+84 to S 871+41.93
Aug. 1971	Oceanside Area S 500+00 to S 117+00
Jan. 1972	Oceanside Area N 339+84 to S 480+14.44
Apr. 1972	Oceanside Area to San Clemente N 360+00 to N 880+00
Nov. 1972	Oceanside Area
Oct. 1972	N 20+00 to S 35+00
May 1973	Oceanside Area S 92+00 to S 236+00; S 105+00 to S 160+00      Predredge
July 1973	Oceanside Area S 120+00 to S 160+00      Post dredge
July 1973	Oceanside Area S 92+00 to S 236+00
Oct. 1973	Oceanside Area N 20+00 to S 35+00
March & April 1974	Oceanside Area S 480+1422 to N 536+61.52      Condition Survey
Mar. 1976	Oceanside Area N 40+00 to S 50+00      Also Contours shown

OCEANSIDE CELL

INTERVALS	DEPTH	SCALE	FILE	CONTROL
-----------	-------	-------	------	---------

500'±	-60	1"=400'	C-794-70-1	COFE
-------	-----	---------	------------	------

1000' 2000'			Tab's Only	COFE
----------------	--	--	------------	------

1000'±	-40		Tab's Only	COFE
--------	-----	--	------------	------

1000' to 5000'	-42	1"=400	(5 sheets) C-762-70-10	COFE
-------------------	-----	--------	---------------------------	------

500'	-40	1"=400	C-760-71-8	COFE
------	-----	--------	------------	------

1000' to 5000'	-50	1"=400	C-758-72-1 C-763-72-1	COFE
-------------------	-----	--------	--------------------------	------

2000' to 5000'	-48	1"=400	D-724-72-3 D-728-72-3	COFE
-------------------	-----	--------	--------------------------	------

500'	-50	1"=200	D-740	COFE
------	-----	--------	-------	------

500'	-48	1"=400	C-761-73-0 Tab's Only	COFE
------	-----	--------	--------------------------	------

500'	-48	1"=400	C-761-73-6	COFE
------	-----	--------	------------	------

200'	-27 -48	1"=400	C-761-73-07	COFE
------	------------	--------	-------------	------

500'	-50	1"=200	C-756-73-10	COFE
------	-----	--------	-------------	------

1000' to 5000'	-50	1"=400	(8 sheets) D-727-74-3 D-763-74-3	COFE
-------------------	-----	--------	--	------

500'	-48	1"=400	(5 sheets) C-760-76-3 C-760-77-4	COFE
------	-----	--------	--	------

COAST OF CALIFORNIA STORM AND TIDAL WAVES STUDY
--

BEACH PROFILE DATA
--------------------

U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT
--

SAN PEDRO CELL

DATE	DESCRIPTION
Mar. 1982	Borro Area Sta. 110+84 to 148+84
Apr. & May 1982	Belmont Shore 56th & 70th St., 87+30 to 899+52.90
Jan. 1983	Belmont Shore 56th & 70th St., 87+30 to 899+52.90
May 1983	Surfside & Sunset 87+30 to 187+84
May 1983	Seal Beach 0+00 to 54+20
Feb. 1983	Borrow Area Sta. 110+84 to 148+84
May 1984	Borrow Area Sta. 10+00 to 27+00
Sept. 1984	Seal Beach 0+00 to 48+50
Sept. 1984	Surfside Sunset Sta. 87+30 to 117+83 117+83 to 177+86
Jan. 1972	San Gabriel River to Newport Bay Contours
Jan. 1972	Santa Ana River to Newport Beach Sta. 630+36.40 to Sta. 745+94
Oct. 1972	Newport Beach Groins 28th St. & 32nd St., 50'S & 50'N Both Groins
Dec. 1972	Newport Beach Groins 40th St. & 44th St., 50'S & 50'N Both Groins
Mar. 1973	Seal Beach Sta. 0+00 to Sta. 48+50
Mar. 1973	Surfside Sta. 87+30 to Sta. 187+84
May 1973	Bolsa Chica Beach to Newport Beach Sta. 257+88 to Sta. 909+53
Jan. 1977	Surfside Sta. 87+30 to Sta. 187+84
Jan. 1978	Seal Beach Sta. 0+00 to Sta. 54+20



SAN PEDRO CELL

CORPS OF ENGINEERS

	INTERVALS	DEPTH	SCALE	FILE	CONTROL
	200'		1"=200'	D-981	COFE
2.90	500' to 5000'	-36	1"=400'	D-982 to D-989	COFE
2.90	500' to 5000'	-36	1"=400'	E-905 to E-912	COFE
	1000'	-38	1"=400	E-920 to E-921	COFE
	800'±	-36			COFE
	200'		1"=400'	E-904	
	100'		1"=200;	E-996	
	1000'±	-40		Tabs Only	COFE
83 to 177+86	500' 1000"	-40		Tabs Only	COFE
		MLLW -18		C-963	COFE
745+94	1000'±	-36	1"=400'	C-931-72-1	COFE
S & 50'N Both Groins	50'	-27			COFE
S & 50'N Both Groins	50'	-27			COFE
	800'±	-38			COFE
84	1000'±	-38			COFE
+53	1000'±	-38			COFE
84	1000'±	-26			COFE
	500'±	-42			COFE

Contours

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

SAN PEDRO CELL

## DATE

Dec. 1978	Surfside to Newport	Sta. 87+30 to Sta. 899+52.90	varying Dist.
June 1979	Surfside to Newport	Sta. 87+30 to 899+52.90	varying Dist.
Nov. 1979	Surfside to Newport	Sta. 87+30 to 899+52.90	varying Dist.
May 1980	Surfside to Newport	Sta. 87+30 to 899+52.90	varying Dist.
June 1980	Seal Beach	Sta. 0+00 to 54+02	
Oct-Nov. 1980	Surfside to Newport	Sta. 87+30 to 899+52.90	varying Dist.
July 1980	Borrow Area	Sta. 110+84 to 148+84	
Dec. 1980	Borrow Area	Sta. 110+84 to 148+84	
Oct. 1981	Borrow Area	Sta. 110+84 to 148+84	
May 1981	Belmont Shore	Sta. 56th St. & 70th St.) Surfside to Newport	87+30 to 899+52.90 varying Dist.
Oct. 1981	Surfside to Newport	87+30 to 899+52.90	Also 56th & 70th St. Belmont Shores
Oct. 1966	Seal Beach to Newport	Sta. 0+00 to Sta. R 80A with Fan Ranges	
Mar. 1966	Bolsa Chica to Huntington Beach	R-13A to R-23A	
Mar. 1965	Cabrillo Beach	Sta. A,B,C,D,E,F,G,H,I,J,K,L,M,N,	
Apr. 1967	Newport	Sta. 780+32 to Sta. 830+44	
Nov. 1968 Sept. 1967	San Gabriel River to Newport Bay	Sta. 630+26 to Sta. 760+32	

SAN PEDRO CELL

	INTERVALS	DEPTH	SCALE	FILE	CONTROL
.90 varying Dist.	500' to 5000'	-40	1"=1000'	D-928 to D-930	COFE
varying Dist.	500' to 5000'	-38	1"=1000'	D-937 to D-939	COFE
varying Dist.	500' to 5000'	-38	1"=1000'	D-940 to D-492	COFE
varying Dist.	500' to 5000'	-36	1"=1000'	D-947 to D-949	COFE
	500'±	-38	1"=400'	D-945	COFE
varying Dist.	500' to 5000'±	-36	1"=400'	D-954 to D-961	COFE
	200'		1"=400'	D-946	COFE
	200'		1"=400'	D-952	COFE
	200'		1"=400'	D-970	COFE
87+30 to 899+52.90 varying Dist.	500' to 5000'	-36	1"=400'	D-962 to D-969	COFE
th & 70th St. Belmont Shores	500' 5000'	-36	1"=400'	D-971 to D-978	COFE
with Fan Ranges	500' to 1500'	-42'		B-959 to B-961	COFE
	1000'±	-38		Tabs Only	COFE
	500'	-40 -78	1"=300'	2138-A	COFE
	100'	-40		B-953	COFE
		-35 to -80	Profile	B-982 to B-987	COFE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

SAN PEDRO CELL

DATE	DESCRIPTION
Sept. Oct. 1967	R-80A & Fan R-A,B,C,D,E,F 87+30 to 107+84 Surfside to Newport Sta. 87+30 to Sta. 909+53 107+84 to 909+53
Dec. 1967	Newport Beach Area Sta. 689+37 to Sta. 735+44
Nov. 1967	Royal Palms or Whites Beach Area Sta. 0+00 to Sta. 13+60.72
Feb. 1968	Newport Beach Sta. 689+37 to Sta. 735+44
Apr. & May 1968	Newport Beach Sta. 622+92 to Sta. 760+32.10
July 1968	Newport Beach Sta. 622+92 to Sta. 760+32.10
July 1968	San Gabriel River to
Nov. 1968	Newport Bay Sta. 638+78 to Sta. 760+32
Nov., Dec. 1968	Newport Beach Sta. 622+92 to Sta. 760+32.10
Apr. 1969, Sept. 1969, Apr. 1970	Newport Profiles for Data to Left Sta. 638+78 to 659+91
April 1969	Surfside to Newport Sta. 87+30 to Sta. 909+53
April 1970	Seal Beach Sta. 0+00 to Sta. 50+17.97
April 1970	Surfside to Newport Sta. 87_30 to Sta. 909+53
Jan. 1971	Cabrillo Beach 0+17.70 to R-15 Royal Palms or Whites Beach Contours
June 1971	Seal Beach 0+00 to 46+02.12
Mar. 1960	Seal Beach SB-2 to Neptune St. Also Shows CL of Jettys

SAN PEDRO CELL

	INTERVALS	DEPTH	SCALE	FILE	CONTROL
87+30 to 107+84	500'	-36	1"=1000'	B-966 to	COFE
107+84 to 909+53	1000'	-40			
	200'±	-30		Tab's Only	COFE
a. 13+60.72	300'±	-33		Plane Table Sheet only	COFE
	300'±	-24		Tab's Only	COFE
	500'±	-38	1"=500'	C-934	COFE
	500'±	-36	1"=500'	C-916	COFE
1+32	500'±	-36		C-906 to C-911	COFE
1+32.10	250'± to 500'±	-38		C-917	COFE
to 659+91	400'±	-5		C-935	COFE
	1000'	-38	1"=1000'	C-921 C-923	COFE
	500±	-36	1"=400'	C-926-70-4	COFE
3	1000'±	-38	1"=400'	C-926-70-4 C-933-70-4	COFE
ours	400'	-46	1"=300'	A-2141	COFE
	5'	-30	1"=5	A-2143	COFE
	Contours				
	500'±	-26		C-960	COFE
f Jettys	500'±	025	1"=200;	989-A	COFE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

SAN PEDRO CELL

DATE	DESCRIPTION
Oct. & Nov. 1960	Seal Beach SB-2 to Neptune St. Seal Beach Surfside, Sunset Also shows CL of Jettys (Alamitos Bay)
Oct.-Nov. 1960	Showing Profiles from Sta. 50' East of Pier to Sta. "K" Alamitos Entrance
July 1962	Cabrillo Beach Sta. 16-60 to 36+00 100' East of Groin, CL Groin, 100 West of Groin
May 1963	Santa Ana River to Newport Entr. R-32 to R-80 includ. Fan A,B,C,C from West Jetty
Aug. 1963	Seal Beach of Alamitos Bay Extension Sta. 43+00.90
Jul. & Aug. 1973	Seal Beach to Newport Sta. of East Jetty Alamitos
Aug. 1963	Seal Beach S CL of Alamitos Bay Extension Sta. 43+00.90
Aug. 1963	Seal Beach to Newport Sta. CL of East Jetty Alamitos Bay Extension R80
July 1964	Surfside, Sunset R-1 to R-15
Aug. 1964	Newport Canyon Fans from Newport Pier Fans "A" through Fan "S"
Aug. 1965	Newport Beach Sta. R-26 to R-48
Oct. 1965	Seal Beach
Nov. 1965	Seal Beach to Bolsa Chica Beach Sta. 0+00 to R-11-B
Jan. 1965	Newport Beach Sta. R-26 to R-48
Oct. 1965	Seal Beach Sta. 0+00 to Sta. 54-20

SAN PEDRO CELL

	INTERVALS	DEPTH	SCALE	FILE	CONTROL
os Bay)	500'±	-30	1"=300'	993-A	COFE
1. "K" Alamitos Entrance	500'±	-30		997 A 993 A	COFE
00 West of Groin	100' to 200'	-41	1"=300	2125A R	COFE
,C from West Jetty	1000'±	-40			COFE
		-26	1"=200'	901 R	COFE
itos	500'± to 2000'	-36	1"=300'	902-B, Rev.A 50 910-B	COFE
	500'±	-26	1"=200'	901-B	COFE
lamitos Bay Extension R80	500'± to 2000'	-36	1"=300'	902B, Rev.A to 910B	COFE
	1000'±	-30	1"=300'	B-976 to B-978	COFE
rough Fan "S"	Fans	-26 to -522	1"=500'	B-974	COFE
	500' to 1000'	-40	1"=300'	B-942 B-943	COFE
	500'	-26	1"=200'	B-947	COFE
1-B	500'±	-40		Tab's Only	COFE
	500' to 1000'	-40	1"=300'	B-942, B-943	COFE
	500'	-26	1"=200'	B-947	COFE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

SAN PEDRO CELL

DATE	DESCRIPTION		
Sept. 1966	Seal Beach to Huntington Beach	Sta. 0+00 to Sta. 605+51	
Oct. 1966	Seal Beach	Sta. 0+00 to Sta. 46+02	
Jan. 1966	Bolsa Chica to Huntington.	Sta. 13-B to 23-A	
1875,1934,1937 1948,1949,1951 1952	Santa Ana River to Corona Del Mar	Compiled Feb. 1952	Sheet 3 of 3
1879,1934,1937 1949,1953	San Gabriel River to Newport Bay	In Cooperative Study Beach Erosion Orange Co.	Compiled Mar. 1962
1879,1934,1937 1949,1958	San Gabriel River to Newport Bay		
1878-1879, Jul. 1934, Sep-Oct.1937 Nov-Dec 1958; Nov. 1961	San Gabriel River to Newport Bay	In Cooperative Report Beach Erosion	
		Mar.1962, Sta.0+00 to Sta.909+53 0+00 to 87+30; 87+30 to 909+53	
1875,1934,1937 1948,1949,1951 1952	Santa Ana River to Corona Del Mar	Compiled Feb. 1952	Sheet 3 of 3
1934,1937,1947 1948,1949,1951 1952	Bolsa Bay to Santa Ana River	Compiled Feb. 1952	Sheet 2 of 3
1934,1937,1947 1948,1949,1951 1952	Belmont Pier to Bolsa Bay	Compiled Feb. 1952	Sheet 1 of 3
July 1937 Mar. 1939	Profiles from West Jetty Alamitos Bay	Sta. 949+27.63 = West Jetty	



SAN PEDRO CELL

	INTERVALS	DEPTH	SCALE	FILE	CONTROL
--	-----------	-------	-------	------	---------

	1" = 1000 1000±	-38		924B; 925B	COFE
--	--------------------	-----	--	------------	------

	500'	-26	1"=200'	B-948	COFE
--	------	-----	---------	-------	------

	1000'	-36	1"=1000'	B-975	COFE
--	-------	-----	----------	-------	------

	6' Contours	MLLW to -24'		916-918A	
--	----------------	-----------------	--	----------	--

	6' Contours	MLLW to -30		824B-826B	USC & GS RLPatterson
--	----------------	----------------	--	-----------	-------------------------

	6' Contours	MLLW to -30'		C-949-C-951	COFE(BEB) COFE(LA)
--	----------------	-----------------	--	-------------	-----------------------

		-30	Profiles	827-B to 831-B; 836B	USC & GS Patterson
--	--	-----	----------	-------------------------	-----------------------

	500' 1000'				COFE(LA)
--	---------------	--	--	--	----------

	6' Contours	MLLW to -24		918A	
--	----------------	----------------	--	------	--

	6' Contours	MLLW to -24		917A	
--	----------------	----------------	--	------	--

		-24		916A	
--	--	-----	--	------	--

	700'±			907A	Orange Co COFE
--	-------	--	--	------	-------------------

COAST OF CALIFORNIA STORM AND TIDAL WAVES STUDY
--

BEACH PROFILE DATA
--------------------

U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT
--

SAN PEDRO CELL

DATE	DESCRIPTION	
July 1944	To Newport	Sta. 32+32.63 = Newport Area
Oct. 1947	Profiles plotted in these symbols (*) are interpolated from nearest profile lines surveyed.	
Jan. 1948	Prior to establishment of BEB range lines. Inset shows location of lines	
Feb. 1948	Surfside Orange Co.	From East Jetty down Coast No. Sta.
Feb. 1958	Seal Beach A-14 Nov. 1956 Sounding	Sta. 5+96.40 to 48+62.85 A-13 Nov. 1956
Jan. 1958	Seal Beach A-14 Nov. 1956 Sounding	Sta. 5+96.40 to 48+62.85 A-13 Nov. 1956 Sounding
Nov.-Dec. 1958 June 1963; Sept. 1966	Newport to Santa Ana	Sta. 638+77 to Sta. 750+94 Groin & Beach fill
Feb. 1956	Surfside Area	A-1 to A-14
Nov. 1956	Surfside Area	A-1 to A-14
Aug. 1959	Seal Beach	Sta. 2nd St. to Neptune St.
Aug. 1937	Orange County Newport Harbor Ent. to San Gabriel River outlet	
Mar. 1939	Orange County Newport Harbor Ent. to San Gabriel River outlet	
Jan. 1949	Soundings - Cabrillo Beach Disposal Area 1:5000	
Mar. 1949	Cabrillo Beach Disposal Area	Sta. 4+00 to Sta. 36+00
Mar. 1949	Cabrillo Beach	Sta. 0+17.70 to 15+00

SAN PEDRO CELL

	INTERVALS	DEPTH	SCALE	FILE	CONTROL
Newport Area	1000' 2000'	-26 to -150	Missing	915A	Orange Co.
Interpolated from nearest					COFE
Inset shows location of lines					COFE(BEB)
down Coast No. Sta.	200' to 1000'	-25	1"=400'	903A	COFE(BEB)
48+62.85	500'±		1"=200'	987-A	COFE(BEB)
48+62.85					
Sounding	500'±		1"=200'	987-A	COFE(BEB)
Sta. 750+94	100'	-40		B950 to B951	COFE(BEB)
111					
	1000'	-27		Tab Only	COFE (BEB)
	1000'	-20		Tab Only	COFE (BEB)
Neptune St.	500'±	-23		988-A	COFE (BEB)
t	Contours	MHT to-36	Contours	1054 to 1067	Orange Co. Patterson
t	Contours	MHT to-30	Contours	1069 to 1077	Patterson
0			Profiles	A1280	COFE
. 36+00	400'	-36'	Profiles	A-1282 to A-1283	COFE
15+00	400'	-65±	1"=300	A-1281	COFE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

## BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

SANTA MONICA CELL

DATE	DESCRIPTION
May 1969	(LA Dist.) Redondo Beach to Malaga Cove Sta. 302+65 to Sta. 428+19 (Contours Also)
Dec. 1969	(LA Dist.) Redondo Beach to Malaga Cove Sta. 288+65 to 428+19 (3 yr. report 1968, 1969) From Cooperative data collection (Contours also) 1967,
Mar. 1970	(LA Dist.) Redondo Beach to Malaga Cove Sta. 288+65 to Sta. 428+19 6' Contours 9150
Jan. 1971	(LA Dist.) Redondo Beach to Malaga Cove Sta. 323+00 to 428+19.08 6' Contours HLSO
July 1972	(LA Dist.) Redondo Beach to Malaga Cove Sta. 28+65 to 428+19.08 6' Contours also
May 1973	(LA Dist.) Redondo Beach to Malaga Cove Sta. 288+65 to 428+19.08
May 1980	(LA Dist.) Redondo Beach (Malaga Cove dredge ditch) Sta. 367+38.80 to Sta. 397+65.92
Nov. 1980	(LA Dist.) Redondo Beach to Malaga Cove Sta. 292+65 to Sta. 428+19
Sep-Oct. 1949	Contours and Depths Sta. Beach-1 to Beach-9 Canyon-3 to Canyon-9 R.L. 54 & 55
June 1958	(LA Dist.) Redondo Beach King Harbor & Bkw. S-20 to -12+00
Dec. 1959	(LA Dist.) Redondo Beach King Harbor & Bkw. S-20 to -12+00
Oct. 1962	(LA Dist.) Redondo King Harbor & Bkw S-16 to S-12
June 1966	(LA Dist.) Redondo Beach to Malaga Cove Contours
June 1966	(LA Dist.) Redondo Beach to Malaga Cove

SANTA MONICA CELL

	FILE	INTERVALS	SCALE	DEPTH	CONTROL
02+65 to Sta. 428+19 (Contours Also)	B-2286 B-2287	500'±	1"=300	48'±	LA County
(Contours also) 1967, 88+65 to 428+19 (3 yr.report 1968,1969)	B-2288 B-2289	200' to 500'	1"=300'	-50'± to -220'±	LA County
88+65 to Sta. 428+19 6' Contours 9150	B-2290 B-2291	200'± 500'	1"=300'	-20± to -200'±	LA County
23+00 to 428+19.08 6' Contours HLSO	B-2291 B-2292	500'±	1"=300'	52'±	LA County
8+65 to 428+19.08 6' Contours also	B-2296 B-2297	500'±	1"=300'	-50'± to '193±	COFE LA County
88+65 to 428+19.08	B-2296 B-2202	200'± 500'±	1"=300	-50'± -276'±	COFE LA County
itch) Sta. 367+38.80 to Sta.397+65.92	B-2299	100'	1"=200	-46±	LA County
92+65 to Sta. 428+19	Tabs Only	400'±		-56± 186'±	COFE LA County
Canyon-3 to Canyon-9 R.L. 54 & 55	2370	Fans Varies	1"=400'	Contours -26 to -300 Sounding to 420'±	COFE
S-20 to -12+00	2350	400'±	1"=200'	-40'± to 112'±	COFE LA County
S-20 to -12+00	2351	400'±	1"=200'	-40' to 141	COFE LA County
S-12	2352.1	400'±	1"=200	-47 to -82	COFE LA County
urs	2365	Contours	1'=500	+10 to -225	COFE LA County
	2360	Contours	Contours	+10 to -225	COFE LA County

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

SANTA MONICA CELL

DATE	DESCRIPTION	
Nov. 1959	Redondo Beach Sta. -12+00 to S 200+00	
Sept. 1960	Playa Del Rey Sta. N 34+00 to N 224+00	
Nov. 1961	(LA Dist.)	
Jan. 1949	BEB	Malibu Creek to Ballona Creek
Oct. 1935	LA County	Sta. R-1 to Sta. 687+99.72
Dec. 1961	LA Distr.	Malibu Creek to Ballona Creek Sta. R-33 to R-1 Beach Erosion Cooperative Study Aug. 1962 Profiles
Dec. 1961	LA Distr.	Malibu to Santa Monica Sta. R-33 to R-1
Oct. 1961	LA Distr.	Malibu to Santa Monica Sta. 398+93(LL) to Sta. 224+02(AAA)
Oct. 1961	LA Distr.	Malibu to Santa Monica Sta. 502+22 to Sta. 406+44 (kk)
Nov. 1961	LA Distr.	Malibu to Santa Monica Sta. 710_73 to 511+124
Jan. 1961	LA Distr.	Playa Del Rey Disposal Area Sta. 116+00 to Sta. 181+00
Aug. 16, 1962	LA Distr.	Redondo Beach to Santa Monica Sta. S-15(K) to 185+76
Mar. 1963	LA Distr.	Playa Del Rey Beach Range A,B,C,D,E,F,G,H,I,J,K,L,M, & Middle Jetty Redondo Beach to
Feb. & Mar. 1965	LA Distr.	Malaga Cove Sta. 323+00 to 430+19 Contours also
June & July 1965	LA Distr.	Santa Monica to Redondo Beach. In cooperative research & Data Collect. Program, Coast of S.CALIF.3-yr rept. 1964 Sta. N398+93 to N 4+00 to S-15 289+33.57

SANTA MONICA CELL

	FILE	INTERVALS	SCALE	DEPTH	CONTROL
		400'		-42'±	COFE LA County
		400'		-42'±	COFE LA County
	3398	100'±	Profiles	-39	COFE, BEB LA County
	3399- 3407				
Beach Erosion Cooperative Study Aug. 1962	Profiles	1000'±	Profiles	-48	City LA Co
	2222-B to 2219-B	1000'±	1"=300	-48	City LA Co
to Sta. 224+02(AAA)	2215-B to 2217-B	1000'±	1"=300'	-38±	City LA Co
Sta. 406+44 (kk)	2218-B to 2217-B	1000'±	1"=300'	-38±	City LA Co
11+124	2219-B 2218	1000'±	1"=300'	-38±	City LA Co
Sta. 181+00		500'±	1"=300	-36±	City LA Co
185+76	B-2260 to B-2264	500'±	1"=300	-38±	City LA Co
E, F, G, H, I, J, K, L, M, & Middle Jetty	Tabs Only			-36±	City LA Co
	B-2271				City
30+19 Contours also	B-2272	500'±	1"=300	-38±	LA Co
Search & Data Collect. Program, Coast of 4+00 to S.CALIF. 3-yr rept. 1964	B-2248 to B-2254	200' to 2000'	1"=300	-48±	City LA Co

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

SANTA MONICA CELL

DATE	DESCRIPTION	
Oct. 1967	LA Distr. Redondo Beach	S-22 = 323+26.83 to 412+90.22 -23' on odd 100's -75'± on even 100's
Jan. 1968	LA Distr. Redondo Beach	Sta. 391+57.10 to Sta. 399+70.06 Contours also
Mar. 1968	LA Distr. Redondo Beach	Sta. 385+49.10 to Sta. 391+57.10 Contours also
Apr. 1968	LA Distr. Redondo Beach	Sta. 353+36.84 to Sta. 418+19 Contours also
Oct. 1968	LA Distr. Redondo Beach	Sta. 323+00 to Sta. 423+19 Cooperative report for 3 yr. 1967, 1968, 1969. (Contours also)
Jan. 1972	Las Tunas Beach Park	Contours
Dec. 1930 Nov. 1931	Redondo Beach Area	From 10th St. to Ainsworth Court
1935, 1938 1946	Topanga Canyon to Redondo Breakwater	Shore line & off shore changes Sta. 150+00 to 253+65.14 N
April 1946	(King Harbor) Redondo Beach area	Sta. 0+00 to S-21 Contours
Sept. 1948	Playa Del Rey Harbor Inlet and Basin (6 sets contours, no dates)	N 647+92.24 (vicinity of Castle Rock South to N398+93.18 near Santa Monica Proj.)
Dec. 1954	(King Harbor) Redondo Beach	Sta. -8+00 to S-20
May 1955	(King Harbor) Redondo Beach	Contours, S-11 to S-21
Dec. 1955	(King Harbor) Redondo Beach Harbor Area	Contours S-11 to S-21
Nov. 1956	Santa Monica Canyon to Redondo Beach	Contours



SANTA MONICA CELL

	FILE	INTERVALS	SCALE	DEPTH	CONTROL
412+90.22 -23' on odd 100's -75'± on even 100's	B-2279 B-2280	100'±	1"=300	-23± -75±	LA Co
Sta. 399+70.06 Contours also	B-2281	100'±	1"=300	-38'±	LA Co
Sta. 391+57.10 Contours also	B-2281	100'±	1"=300	-28 to -42	LA Co
Sta. 418+19 Contours also	B-2282 b-2283	100'± to 500'±	1"=300	-46	LA Co
Cooperative report for 3 yr. 423+19 1967,1968,1969. (Contours also)	B-2284 to B-2285	500'±	1"=300	-32± to -42'±	LA Co
	2372 Rev. A	Contours 3'	Contour	+10 to -24	COFE LA Co
Ainsworth Court	2247	Contours	1"=200	+10 to -230	COFE LA Co
Off shore changes Sta. 150+00 to 253+65.14 N	2269 2270 2271		Contours 1+500	MHW to -24	COFE LA Co
S-21 Contours	2264		Contours 1"=200	+10 to -230	COFE LA County
of Castle Rock South to N398+93.18 near (es) Santa Monica Proj.	2272,2273 missing	1500'±	Profiles	-66±	COFE LA County
0	2237 A	500'	1"=200	-116'±	COFE LA County
S-21	2227 A	Contours 5' to 20'	1"=200	-240	COFE LA County
urs S-11 to S-21	2240 A	Contours 5' to 20'	1"=200	+15 to -240'	COFE LA County
	2252 A	Contours 2' to 5'		-20'	COFE LA County

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

SANTA MONICA CELL

DATE	DESCRIPTION	
Sept. 1960	Playa Del Rey Area Sta. -34+00 to Sta. 224+00	
April 1963	(King Harbor) Redondo Beach Harbor Area Sta S-12 to S-16	
June 1964	Marina Del Rey Area Sta. 275+51 to Sta. 176+00	
1933, 1949	Point Mugu to San Pedro Bkw. Contours Shore & off shore changes	
1933	Point Mugu to San Pedro Bkw. Contours Shore & off shore changes	
1949	Point Mugu to San Pedro Bkw. Contours Shore & off shore changes	MLLW-36 MLLW-36
1935, 1938, 1946 Jan. 1949, July 1949	Point Mugu to San Pedro Bkw. Contours Shore & off shore changes	
Aug. 1949	Redondo Submarine Canyon Soundings & Contours	
Oct. 1949	Dume Submarine Canyon Soundings & Contours	
Oct. 1935, June 1946 Sept. 1948	Profiles 48+11.43 San Pedro Bkw 64-100 (Malaga Cove 430+19S) Point Mugu to San Pedro Bkw Sta. 30+11.86 (BC San Pedro Bkw 36+00 San Pedro	
April 1949 Aug. 1949	Profiles 48+11.43 San Pedro Bkw 64-100 (Malaga Cove 430+196) Point Mugu to San Pedro Bkw Sta. 30+11.86 (BC San Pedro Bkw 36+00 San Pedro	
Oct. 1935, June 1946 Sept. 1948 Jan. 1949 July 1949 Aug. 1949	Point Mugu to San Pedro Bkw (Down Coast of Redondo Bkw Sta. 264+65 S to	

SANTA MONICA CELL

	FILE	INTERVALS	SCALE	DEPTH	CONTROL
	2275 A 2276	200'± 2000'±	1"=400	-50'±	COFE LA County
2 to S-16	2284 A	200' to 500'±	1"=200	-58'±	COFE LA County
	2265	500'±	1"=300	-38'±	LA County
off shore changes	3004	6' Contours		MHW to 1"=500	USC & GS -66'COFE
off shore changes	3015, 3013 3014	6' Contours		MLLW to 1"=500	USC & -24GS
off shore changes	MLLW-36 MLLW-36	3006 3007	6' Contours	MLLW to 1"=500	-36COFE
ff shore changes	3008 to 3012	6' Contours	1"=500	MHW to -24	COFE (BEB) LA. County
	3018 B	Contour Vary -21 to -367	Contours	-367±	LA County
	3018 A	Contour Vary 0 to -300	1"=2--'	-420'±	COFE
ove 430+19S) an Pedro BKW 36+00 San Pedro	3029	Profiles	Profiles	-60	COFE LA County
ove 430+196) an Pedro BKW 36+00 San Pedro	3029	Profiles	Profiles	-60	COFE LA County
do BKW Sta. 264+65 S to	3028	Profiles	Profiles	-30 to 200	COFE LA County

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

## BEACH PROFILE DATA

U. S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

SANTA MONICA CELL

DATE	DESCRIPTION
Oct. 1935, Nov. 1946, Dec. 1948, April 1948 July 1948, Dec. 1948 Jan. 1949, July 1949	Pt. Mugu to San Pedro BKW Sta. 28+00 (vicinity of Hyperion Plant) to
May & June 1933	Pt. Mugu to San Pedro BKW Profiles Sta. 328+99N to Sta. 388+91 80 N (Ocean Park) (Pico Blvd)
Oct. 1935 June 1937, Nov. 1946 July 1948, Dec. 1948	
Jan. 1949, July 1949	
Nov. 1949	Pt. Mugu to San Pedro Sta. B (Corral Beach) Dume Beach (Dune Cove)
Dec. 1948, Jan. 1949	Pt. Mugu to San Pedro BKW 715 08.21A to 360+95.20 (30000 above Malibu)
Oct. 1935, Jan. 1949 Aug. 1961 June 1965	Santa Monica to Ballona Creek Profiles Sta. 200+42 (AAA) to Sta. 411+48 Show fans for R-10, 11, 12, 1, 3, 14, 15.
Oct. 1949	Redondo Beach R-1 to R-19 Submarine Canyon Contours & Soundings R-1 to R-19
Sept. 1939	Redondo Beach Harbor Area Contours From 10th St. to Ainsworth Court

SANTA MONICA CELL

	FILE	INTERVALS	SCALE	DEPTH	CONTROL
Hyperion Plant) to	3024 to 3027	1500'±	Profiles	-60 to -120	LA Co (BEB)
N to Sta. 388+91 80 N Park) (Pico Blvd)	3025 and 3026	1500'±	Profiles	-65±  M5363	USC & GS sheet
					Oct-N 1933 LA Co COFE
(Dune Cove)	3022 & 3022 A		Profiles	-65'±	(LA) COFE
5.20 (30000 above Malibu)	3023 & 3024	1500'±	Profiles	-65'±	LA COFE
1) to Sta. 411+48 Show fans for R-10,11,12,1,3,14,15.	B-2268, B-2269, B2270	2500'±	Profiles	-38'±	LA CA
-19	B-2209B	500'±	1"=200'	-343	LA Co.
isworth Court	2236	5'	1"=200	+10 to -230	LA CO, COFE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

SANTA BARBARA CELL

DATE	DESCRIPTION
July 1935	Santa Barbara Harbor Area (East Beach) Westside of Harbor to Bathhouse, downcoast
Aug. 1937	Ventura Pierpont area Ventura Area proposed
Oct. 1948	Index to Profiles Santa Clara River to Laguna Mugu Contours
Aug. 1948	
Sept. 1948	Port Hueneme Canyon Fans from 3(a) West
Mar. 1937, July 1938	Beach Profiles Santa Barbara Area Sta. 0+00 to Sta. 83+05.86
Jan. 1939	
May 1939, July 1939, June 1940, July 1940	
1938	Ventura Co. (Port Hueneme to Laguna Mugu) Off Shore Depth Changes
1948, 1969 MHW	High Water Shoreline Changes (Arnold Rd. Sta. 1464+47) to Sta. 1647+33 (Contours)
1951	
Sept. & Oct. 1938, July &	Ventura Co., Port Hueneme to Laguna Mugu
Aug. 1948, Nov. 1948, Dec. 1951, Dec. 1968, July 1969	Profiles Sta. 1411+32 to Sta. 1708+18
Dec. 1951	Ventura Co. Port Hueneme to Laguna Mugu
Dec. 1958	Profiles Sta. 1449+22 to Sta. 1514+40
Dec. 1951	
July 1969	Profiles Ventura Co. Port Hueneme to Laguna Mugu Sta. 1522+59 to 1661+42
Sept. Oct. 1938, July Aug	Ventura Co. Profiles
1948, Sept. 1953, May & June 1954 June 1959	Port Hueneme to Point Mugu Area R 10W-A to R-25E

SANTA BARBARA CELL

	FILE	INTERVALS	SCALE	DEPTH	CONTROL
de of Harbor to Bathhouse, downcoast	2438	200 to 500'	1"=3000	-32	USED
	2447	1000'±	1"=1000'	-58	USED
Mugu Contours	2418-A	30'	1"=2500	-900	COFE
	2414-A	Fans			
	2415-A-1	8-30	1"=400	-167'	COFE
to 86	2476-1				USED
	2476-2	1000'±	Profiles	-25	SB City
Off Shore Depth Changes Sta. 1464+47) to Sta. 1647+33 (Contours)	3542	MHW to -30	1"=500	-30	COFE
	3543		Horiz. 1"=100	+23 to	
	3544	1500±	Vert. 1"=10	-40'±	
	3545	1500'±	Horiz. 1"=100 Vert. 1"=10	+23 to -36	COFE
Mugu Sta. 1522+59 to 1661+42	3546 to 3548	1500'±	Horiz. 1"=100 Vert. 1"=10	+15 to -135	COFE
-25E	3346 to 3350	1000'±	Horiz. 1"=100 & 1"=500 Vert. 1"=10	+23 to 1-45	COFE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

SANTA BARBARA CELL

DATE	DESCRIPTION
Sept.-Oct. 1938	
July-Aug 1948	Ventura Co. Profiles (Ventura Area)
July 1959	R-11 W-C Sta. 1974+65.71 to R-11-W Sta. 1104+29.44
June 1971	
Sept. & Oct. 1938, July & Aug 1948, Nov. 1948, July 1939	Ventura Co. Profiles Ventura Area R-10-W-D to Sta. 44+23.74
Mar. 1938	
Aug. 1948,	Ventura Co. Profiles Ventura Area Sta. 114+23.74 to Sta. 33+61.62
July 1959	
May 1937	
May 1959	Santa Barbara Point to Carpinteria Area Profiles R-44 to R-3
May 1937,	
May 1947,	Santa Barbara Point to Carpinteria Area Profiles Sta. 16+99 to Sta. 37+96
June 1947	
Mar. 1949,	
May 1949,	
June 1949	
May 1937,	
May 1947,	Santa Barbara Point to Carpinteria Area Profiles Sta. 49+00 to Sta. 72+87
June 1947	
Mar. 1949,	
June 1949,	
Mar. 1959	
May 1937	
June 1959	Santa Barbara Point to Carpinteria Area Profiles Sta. 12+00 to R-4N
May 1965	
Nov. 1965,	Channel Islands Harbor Disposal Area R-5E to R-12E (Hueneme Area) Profiles
Dec. 1965	
Aug. 1959	Port Hueneme Dredging Disposal Area Silver Strand and Hueneme area      Contours



SANTA BARBARA CELL

	FILE	INTERVALS	SCALE	DEPTH	CONTROL
9.44	3345	1000'±	Horiz. 1"=100 500' Vert. 1"=10	MLLW to -45'	COFE
to Sta. 44+23.74	3342 to 3345	1000'±	Horiz. 1"=100 & 1"=500	+8 to	COFE
3.74 to Sta. 33+61.62	3338 to 3341	500'±	Horiz. 1"=100 Vert. 1"=10	+15 to -36	COFE
es R-44 to R-3	3330 to 3337	400'±	Horiz. 1"=100 1"=200 Vert. 1"=10	+15 to -36	COFE
s Sta. 16+99 to Sta. 37+96	3329	400'±	Horiz. 1"=100 1"=200 Vert. 1"=10		COFE
s Sta. 49+00 to Sta. 72+87	3328	400'±	Horiz. 1"=100 1"=200 Vert. 1"=10	+15 to -34	COFE
es Sta. 12+00 to R-4N	3326 to 3327	400'±	Horiz. 1"=100 1"=200 Vert: 1"=10	+15 to -56	COFE
12E (Hueneme Area) Profiles	D-2402	500'	Horiz. 1"=100 Vert. 1"=10	-12	COFE
	B-2451	6' Contours	1"=100	MLLW to -18	COFE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

SANTA BARBARA CELL

## DATE

Mar. 1952	Port Hueneme to Laguna Mugu, CA. Location Map      Contours
	High Water Shoreline Changes and Offshore Depth Changes
Mar. 1952	Port Hueneme to Laguna Mugu      Contours
June 1951	Channel Islands Harbor Sand Trap Area Before Jetties and Bkw. Construction
Sept-Oct. 1938	
July-Aug 1948	Port Hueneme to Laguna Mugu Profiles      R 9E-A to R 29E
Dec. 1951	Port Hueneme to Laguna Mugu Profiles      R 27E-21 to R-23-E-6
Sep. Oct. 1938	
July & Aug 1948	Port Hueneme to Laguna Mugu Contours Arnold Rd to Pt Mugu Lagoon
July 1956	Channel Islands Harbor Areas Profile up Coast segment Sta. 4-8W to R-25 E 14
Oct. 1938,	
June 1956	Port Hueneme Area High Water Line Movement; East Light, Port Hueneme to R 27E-21
Dec. 1951	
Sept. & Oct. 1953	US Naval Air Station Pt. Mugu CA. Silver Strand Area: San Clemente Ave. to West Jetty Port Hueneme
Apr. 1960	Ventura Area and Port Hueneme Area Station Location Sta. 335+61.62 to Sta. R-25E
Apr. 1960	Santa Barbara Area to Sandyland Cove Sta. Locations R-5N to R-48
June 1960	Ventura Co. Oxnard Rd to Laguna Pt. Sta. -4+00 to Sta. 27E-21
Jan. 1961	Channel Island Harbor Disposal Area Sta. R-6E to Sta. R-12E
June 1961	Channel Island Harbor Sand Trap Area Sta. 20-S to Sta. 22+00 N

SANTA BARBARA CELL

	INTERVALS	DEPTH	SCALE	FILE	CONTROL
p Contours	B-2401	30' Contours	1"=2500	-1200'	COFE
Offshore Depth Changes	B-2401	10' Contours	1"=500	MHW to -30	COFE
	B-2405	6' Contours	1"=300	MLLW to -30'	COFE
to R 29E	B-2406 to B-2411	1000'±	Horiz. 1"=100 Vert. 1"=10	-32±	COFE
21 to R-23-E-6	B-2412 to B-2415	1000'±	Horiz. 1"=100 Vert. 1"=10	-32±	COFE
d to Pt Mugu Lagoon	B-2416	10' Contours	1"=500	-30	COFE
segment Sta.4-8W to R-25 E 14	B-2429 to B-2430	1000'± to 3000'±	Horiz. 1"=100 1"=200 Vert. 1"=10	-36	COFE
ast Light, Port Hueneme to R 27E-21	B-2431 & B-2432	From E. Light to R-27E-21	1"=1000'	MHW	COFE
t Jetty Port Hueneme	B-2435	100'	1"=200	-34'±	COFE
cation Sta. 335+61.62 to Sta. R-25E	3324 3325		1"=2000'		COFE
ations R-5N to R-48	3323		1"=2000'		COFE
0 to Sta. 27E-21	B-2472 to B-2477	500 to 1000	1"=300	-38'±	COFE
to Sta. R-12E	B-248	1000'± 1500'	1"=200'	-40'±	COFE
S to Sta. 22+00 N	B-2482	100'± 200'±	1"=100	-32'±	COFE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

SANTA BARBARA CELL

DATE	DESCRIPTION
1855, 1938, 1938 1938, 1948, 1961	Ventura Area Shoreline and Offshore Changes
June 1961	Ventura Co Oxnard Shores to Ventura R-10WB to Stat 124+23.74
July 1959	Channel Islands Harbor Sand Trap Area Sta. N-28 to S-10
July 1954	US Naval Station Pt. Mugu Port Hueneme to Pt. Mugu J-1 to Sta. 27E-21
Mar. 1938 Aug. 1948 July 1959	Ventura Area Comparative Profile
Sept. 1963	Channel Islands Harbor (Sand trap area) Sta. 12+00N to Sta. 10-S
July 1964	Channel Islands Harbor Sand trap area R-10W to R-10-S
1938, 1948	Comparative Surveys Hueneme Submarine Canyon Shows sounding & Contours
Nov. 1949	Carpinteria to Pt. Mugu Profiles Sta. Pt. Mugu 5 to Sta. Pt. Mugu 10
Sept. & Oct 1938, July & Aug. 1948 Nov. 1951, Dec. 1951	Carpinteria to Pt. Mugu Pt. Mugu Area Profiles Oxnard shores Area Sta. R-29E to R 12 W-C
Sept & Oct. 1938, July & Aug 1948	Nov. 1948 Carpinteria to Pt. Mugu Profiles R-11W to R-104+23.74
1855 & 1856, 1869, 1865 & 1870, 1933	Carpinteria to Pt. Mugu Contours Ventura River to Laguna Mugu

SANTA BARBARA CELL

	FILE	INTERVALS	SCALE	DEPTH	CONTROL
	B-2485	Contours	1"=500	-30'	USC & GS COFE
Stat 124+23.74	C-2459 to C-2461	1000'	1"=300	-42'±	COFE
8 to S-10	C-2450	100 to 200'	1"=200	-42'±	COFE
	C-2430 C-2431	1000'±	1"=300'	-42'±	COFE
	B-2486	5000'±	Horiz. 1"=100, 1"=200	-45'±	COFE
12+00N to Sta. 10-S	C-2468	100'	Vert. 1"=10' 1"=100	-22'±	COFE
to R-10-S	C-2468	200' and 1000'	1"=200	-40'±	COFE
Shows sounding & Contours	3151	250'±	1"=250'		COFE
Mugu 5 to Sta. Pt. Mugu 10	3149	1000'±	Horiz. 1"=100, 1"=500	+6' to -48'	COFE
les Oxnard shores Area	3138 to 3148	1000'±	Vert. 1"=10' Horiz. 1"=100	+15 to -2	COFE
R-11W to R-104+23.74	3134 to 3137	1000'±	Horiz. 1"=100, 1"=500 Vert: 1"=10	+18 to -36	COFE
er to Laguna Mugu	3150	6'	1"=4000	MHT to -18	USC&GS COFE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

## BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

MORRO BAY CELL

DATE	DESCRIPTION
Dec. 1955	
Feb. 1956	Morro Bay Hbr. Area, South Beach Contours
Jan. 1958	San Luis Obispo Co., Site 10 (San Jacinto) Beach Survey, 0+00 to 19+00
Feb. 1958	San Luis Obispo Co., Site 11 (Near Arroyo Laguna) Beach Survey, 0+00 to 25+00
Feb. 1958	San Luis Obispo Co., Site 12 (N. W'ly. of San Simeon) Beach Survey, 0+00 to 11+00
Feb. 1958	San Luis Obispo Co., Site 15 (At Arroyo De La Cruz Creek) Beach Survey, 0+00 to 12+00
Feb. 1958	San Luis Obispo Co., Site 14 (N'ly. of Piedraz Blancas Pt.) Beach Survey, 0+00 to 15+00
Feb. 1958	San Luis Obispo Co., Site 13 (Piedras Blancas Pk) Beach Survey, 0+00 to 18+00
Feb/Mar. 1958	San Luis Obispo Co., Site 16 (N'ly. of Pt. Sierra Nevada) Beach Survey, 0+00 to 15+00
Mar. 1958	San Luis Obispo Co., Site 17 (N'ly. of San Carpajo Creek)
Mar. 1958	Monterey County, Site 18 (S'ly. of Plaskett Rock) Beach Survey, 0+00 to 9+00 & 0+60 to 0+60 to 8+60
Apr. 1958	San Luis Obispo Co., Site 7 (Mouth of San Simeon Creek) Beach Survey 0+00 to 44+00

MORRO BAY CELL

	FILE	INTERVALS	SCALE	DEPTH	CONTROL
	A-2581	5'	1"=500'	0' to 15'	COFE
Survey, 0+00 to 19+00	2511-A	100'	1"=200'	-36'±	Pafford & Assoc's. for S.F.Dist., COFE
) Beach Survey, 0+00 to 25+00	2513-A	100'	1"=200'	-40'±	Pafford & Assoc's. for S.F.Dist., COFE
neon) Beach Survey, 0+00 to 11+00	2513-A	100'	1"=100'	-34'±	Pafford & Assoc's. for S.F.Dist., COFE
iz Creek) Beach Survey, 0+00 to 12+00	2516-A	100'	1"=100'	-40'±	Pafford & Assoc's. for S.F.Dist., COFE
lancas Pt.) Beach Survey, 0+00 to 15+00	2515-A	100'	1"=100'	-40'±	Pafford & Assoc's. for S.F.Dist., COFE
) Beach Survey, 0+00 to 18+00	2514-A	100'	1"=100'	-40'±	Pafford & Assoc's. for S.F.Dist., COFE
i Nevada) Beach Survey, 0+00 to 15+00	2517-A	100'	1"=100'	-42'±	Pafford & Assoc's. for S.F.Dist., COFE
o Creek)	2518-A	100'	1"=100'	-36'±	Pafford & Assoc's. for S.F.Dist., COFE
Beach Survey, 0+00 to 9+00 & 0+60 to 0+60 to 8+60	2519-A	100'	1"=200'	-49'±	Pafford & Assoc's. for S.F.Dist., COFE
Creek) Beach Survey 0+00 to 44+00	2534-A	100'	1"=200'	-36'±	Pafford & Assoc's. for S.F.Dist., COFE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

## BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

MORRO BAY CELL

DATE	DESCRIPTION
1958	Monterey & San Luis Obispo Co. Beach Surveys Index Map
1884	San Luis Obispo Co., San Simeon Bay (Soundings to -18')
1935-38-39	Morro Bay Condition Survey - (Contours)
Aug. 1943	Morro Bay Hbr. & South Beach (Contours)
May 1958	Sand Movement Diagrams 0+00 to 90+00
1935-38-39	Morro Bay Plan of Improvement, Plans A,B,&C (Contours & Borings)
Apr-Aug. 1939	Morro Bay - Survey of outlet and vicinity 0+00 to 10+00/0+00 to 11+00, South Beach) Harbor - North Beach, around outlet.
July 1941	Morro Bay (Military Constn.)
July 1943	Plan View & X-sects, of S. Beach, 0+00 to 60+00
Jun-July 1943	Morro Bay Hbr. - Dredging Area Test holes for S. Beach Disposal area (1873,1920,1939,1941)
May 1943	Same as File No. 2582, with contours added.
Mar/Jun 1946	Estero Bay (S. of Morro Bay Hbr.) From M.B. South Jetty downcoast 6000'±
Feb/Oct. 1948	Same as File No. 2597, with 1935 -30' Contour line.
Oct. 1948	Same as File No. 2597, with location of test holes and shows Oct. 1948 soundings
Sept. 1949	Morro Bay Hbr. area soundings State Beach South Beach (with contours)
May 1983	Morro Bay Hbr. area soundings contours of State Beach, S: of S. Jetty
Nov. 1954	Morro Bay Hbr. area soundings Beach X-Sects., South of S. Jetty



MORRO BAY CELL

	FILE	INTERVALS	SCALE	DEPTH	CONTROL
ex Map	2510-A	--	1"=5 mi.	--	COFE(SF.DIST)
o -18')	2506	2000'±	1:10,000	-70'	USC&GS & USN USED
	A-258S	5'	1"=500'	-40' to 50'	COFE
	A-2553-A	1'	1"=500'	+10' to -18'	COFE
	2567				
	2567-1				USC & GS
	2567-2	5'	1"=500'	-50'	USED
	2567-3				
- North Beach, around outlet.	2564	5', 200' to 200'	1"=250'	-50'	COFE USED
	2582	1000'	1"=200'	-2'±	COFE
,1939,1941)	2584-1	200' + 1000'	1:3000	-36'±	COFE
	2581	5'	1"=250'	-2'±	COFE
h Jetty downcoast 6000'±	2410-K	200'	1"=500'	-29'	USC & GS
ne.	2596	200'	1"=500'	-29'	USC & GS
es and shows Oct. 1948 soundings	2594	200'	1"=400'	-29'	USC & GS
Beach (with contours)	2599	2'	1:3000	+16 to + 6'	USC & GS
Beach, S: of S. Jetty	2506-A	5'	1"=500'	MLLW to +50'	USC & GS
uth of S. Jetty	2505-A	200'±	1:3000	+16' to +1	USC & GS

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

## BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

MORRO BAY CELL

DATE	DESCRIPTION
May 1958	San Luis Obispo Co., Site 8 (Mouth of Pico Creek) Beach Survey, 0+00 to 12+00
May 1958	San Luis Obispo Co., Site 9 (Mouth of Little Pico Creek)
May 1958	Morro Bay Hbr., South Beach 26+00 E.C. to 106 M.C. & 0+00 to 45+00
May 1958	San Luis Obispo Co., Site 1 (Morro Bay State Park) Beach Survey 0+00 to 262+00
May 1958	San Luis Obispo Co., Site 2 (North side of Morro Rock) Beach Survey, -2+00 to 117+00
May 1958	San Luis Obispo Co., Site 3 (Mouth of Toro Creek) Beach Survey, 0+00 to 30+00
May 1958	San Luis Obispo Co., Site 4 (Mouth of Villa Creek) Beach Survey, 0+00 to 17+00
May 1958	San Luis Obispo Co., Site 5 (Mouth of Santa Rosa Creek) Beach Survey, 0+00 to 21+00
May 1958	San Luis Obispo Co., Site 6 (Mouth of Leffingwell Creek) Beach Survey, 0+00 (6-0) to 10+00 (6-C)
Sept. 1958	Morro Bay Hbr. Area., South Beach (10-A to 20-A) entrance channel (16+00 to 26+00)
Sept. 1959	Morro Bay Hbr., Condition Survey South Beach (0+00 to 20-A)

MORRO BAY CELL

	FILE	INTERVALS	SCALE	DEPTH	CONTROL
Beach Survey, 0+00 to 12+00	2535-A	100'	1"=100'	-36'±	Pafford & Assoc's. for S.F. Dist., COFE
Creek)	2536-A	100'	1"=100'	-36'±	Pafford & Assoc's. for S.F. Dist., COFE
& 0+00 to 45+00	2537-A	200' to 500'	1"=250'	-48'±	COFE
Beach Survey 0+00 to 262+00	2527-A				Pafford & Assoc's. for S.F. Dist., COFE
lock) Beach Survey, -2+00 to 117+00	to 2529	100'	1"=200'	-36'±	Pafford & Assoc's. for S.F. Dist., COFE
Beach Survey, 0+00 to 30+00	2530-A	100'	1"=200'	-33'±	Pafford & Assoc's. for S.F. Dist., COFE
) Beach Survey, 0+00 to 17+00	2531-A	100'	1"=100'	-33'±	Pafford & Assoc's. for S.F. Dist., COFE
Creek) Beach Survey, 0+00 to 21+00	2532-A	100'	1"=200'	-36'±	Pafford & Assoc's. for S.F. Dist., COFE
Creek) Beach Survey, 0+00 (6-0) to 10+00 (6-C)	2533-A	100'	1"=100'	-36'±	Pafford & Assoc's. for S.F. Dist., COFE
entrance channel (16+00 to 26+00)	A-2582	200' & 500'	1"=200'	-52'±	COFE
) to 20-A)	2538-A	200' to 500'	1"=250'	-62'±	COFE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

## BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

MORRO BAY CELL

DATE	DESCRIPTION
Aug. 1977	Morro Bay Beach Disposal Area 0+00 N to 255+00 N.
May 1979	Morro Bay Beach Disposal Area 0+00 N to 255+00 N.
June 1980	Morro Bay Beach Disposal Area 5+00 to 150+00 (X-Sects. only)

MORRO BAY CELL

	FILE	INTERVALS	SCALE	DEPTH	CONTROL
--	------	-----------	-------	-------	---------

N.

B-2557 to B-2563	500'	1"=200'	-38'±	COFE
------------------------	------	---------	-------	------

N.

B-2571 to B-2577	500'	1"=200'	-40'±	COFE
------------------------	------	---------	-------	------

(-Sects. only)

Book H-14-1 Pg.158-167	500' to	----	----	COFE
------------------------------	---------	------	------	------

COAST OF CALIFORNIA STORM AND TIDAL WAVES STUDY
--

BEACH PROFILE DATA
--------------------

U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT
--

SANTA YNEZ RIVE L

DATE	DESCRIPTION
June 1967	Vandenberg Air Force Base (surf area) Sta. 153 <sup>0</sup> /s to Sta. 154 <sup>0</sup> /s
Aug. 1968	(Rist. Study) Vandenberg AFB (surf area) Sta. 157 to Sta. 160
Oct. 1968	(Rist. Study) Vandenberg AFB (surf area) Sta. 156 <sup>0</sup> /s to Sta. 158 <sup>0</sup> /s
June 1981	Sta. 7+00 to Sta. 13+00 Vandenberg AFB (Pt. Arguello life boat station)

SANTA YNEZ RIVER CELL

	FILE	INTERVALS	SCALE	DEPTH	CONTROL
8 <sup>0</sup> /s to Sta. 0/s	Tabs Only	100'	----	-52'±	COFE
157 to Sta. 160	Tabs Only	100'	----	-61'±	COFE
156 <sup>0</sup> /s to Sta. 158 <sup>0</sup> /s	Tabs Only	100'	----	-32'±	COFE
Arguello life boat station)	Tabs Only	100'	----	-17'±	COFE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

## BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

SANTA MARIA RIVER CELL

DATE	DESCRIPTION
Aug. 1959	Port San Luis, Avila Beach Topo-Hydro Surveys (Ranges D-1 to Fan H)
Mar. 1966	Port San Luis, Avila Hbr. Area   Contours
Mar. 1966	Port San Luis, Avila Hbr. Area   Contours
May 1966	Port San Luis, Avila Beach (Ranges D-1 to Fan H)
June 1969	Port San Luis, Avila Hbr. Area   Phases 2, 3, & 4   Contours
Aug. 1969	Port San Luis, Avila Hbr. Area   Contours
Oct. 1969	Pismo Beach (sewer line) 100'N. to 100'S.
June 1976	Port San Luis, Avila Hbr. Area 0+00 to 20+00 and R-0 to R-10
July 1976	Port San Luis, Avila Hbr. Area   Contours
Dec. 1976	Port San Luis, Avila Hbr. Area -2+00 to -10+00



SANTA MARIA RIVER CELL

	FILE	INTERVALS	SCALE	DEPTH	CONTROL
anges D-1 to Fan H)	2539-A to 2542-A	400'	1"=200'	-52'±	COFE
	B-2502/ 2535	2' to 100'	1"=200'	+200' to -40	COFE
	A-2587	2' to 3'	1"=400'	MLLW to -60	COFE
	A 2586	400'±	1"=400'	-62'±	COFE
Contours	B-2515 to B-2517	2' to 50'	1"=200'	+200 to -40'	COFE
	B-2518	6'	1"=500'	MLLW to -48'	COFE
	Tabs Only	100'	Tabs Only	-21'	COFE
-0 to R-10	B-2546 & B-2547	200'	1"=200'	-24'	COFE
	B-2549	2'	1"=200'	-32'	COFE
	Tabs Only	200'	--	-45'±	COFE

COAST OF CALIFORNIA  
STORM AND TIDAL WAVES STUDY

BEACH PROFILE DATA

U.S. ARMY CORPS OF ENGINEERS  
LOS ANGELES DISTRICT

DATE  
FILMED  
5-8